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Aug 24, 2016

Ref: JoVE manuscript submission (revised submission)

Dear Teena Mehta,

We would like to submit our revised manuscript entitled ‘Collection of serum- and feeder- free mouse embryonic stem cell conditioned media for cell-free approach’ into Journal of Visualized Experiments (JoVE). In this revised manuscript, we address all the comments/suggestions from editorial and reviewers.

Please see below for some information about our manuscript.

Title	Collection of serum- and feeder- free mouse embryonic stem cell conditioned media for cell-free approach
Author contributions	Y.-U.B: designed and performed experiments, demonstrate experimental procedures, wrote manuscript. H.-K.S. & J.-R.K: designed project and experiments, wrote manuscript
The name of editor	Dr. Teena Mehta
Reviewer	Suggested: 1) Dr. Goo Jang, Associate professor, Seoul National Univ. snujang@snu.ac.kr. 2) Kiwon Ban, Assistant professor, City University of Hong Kong, Ban.KW@cityu.edu.hk

Although embryonic stem cells (ESCs) or induced pluripotent stem cells (iPSCs) hold promise for future cell-based therapy in the regenerative medicine, there are still multiple roadblocks for therapeutic application. Interestingly ESCs or iPSCs are known to produce multiple soluble factors that might have beneficial contribution to tissue regeneration and aging process.

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To explore biological function of soluble factors from ESCs, we optimized protocol for the collection of mouse ESCs conditioned medium (mESC-CM). Our protocol provides a method to collect mESC-specific secretory factors without contamination from serum and feeder cell layer, which will enable full characterization of mESCs-derived factors for regenerative and anti-aging medicine.

Thank you for your positive consideration.

Sincerely yours,

A handwritten signature in blue ink, appearing to be 'H. Sung', written in a cursive style.

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