Dear Prof. Singh,

attached please find the revised version of out manuscript entitled **"Implantation of hiPSC derived cardiac-muscle patches after myocardial injury in a guinea pig model".**

The reviewers comments have been very helpful in improving the manuscript. Please find attached a revised version with the changes highlighted in yellow.

Editor: Converted to a note please check.

Answer: We agree with the Editor that this should be a note.

Editor: Please provide a figure for this. This is important

Answer: We have now provided a figure showing Dystrophin, as well as Ku80 Staining

Editor: Yes, monitoring is fine... please describe your observation as well.

Answer: A successful EHT implantation is characterized by an improvement in LVEF, Fractional area shortening, and a decrease in Left ventricular end-diastolic diameter.

Editor: Please expand on what is being observed with the staining. Please provide a scale bar in the figure and describe it in the figure legend.

Answer: The infarction is determined by the blue color in Masson’s trichrome staining, representing fibrotic tissue. Scale bar 2mm.

Sincerely

Simon Pecha