Reviewer’s report

Title: Granulocyte colony-stimulating factor attenuates myocardial remodeling and ventricular arrhythmia susceptibility via the JAK2-STAT3 pathway in a rabbit model of coronary microembolization

Version: 1 Date: 16 Dec 2019

Reviewer: Xiang-Jian Chen

Reviewer's report:

1. Previous question: There are many errors and suspicions in the description of IHC. The tissue is from the rabbit. Why the sources of primary antibodies were chosen from the rabbit (the same species with the tissue) and the second antibody is goat anti-rabbit? It would result in false positive. The DAB is not conjugated to HRP.

Response: We thank the Reviewer. This is a clerical error that occurred during manuscript preparation and translation. It was corrected.

I am still concerned about the antibodies used in this study. In the revised manuscript (P11), the authors claimed that: "with the goat anti-rabbit anti-p-Cx43 (1:300, SC-101660, Santa Cruz Biotechnology, Santa Cruz, CA, USA), anti-t-Cx43 (1:200, BA1727, Boster Biological Technology Co., Ltd., California, USA), or anti-G-CSFR (1:200, SC-9173, Santa Cruz Biotechnology, Santa Cruz, CA, USA) primary antibody. The sections were incubated with mouse anti-goat secondary antibody labeled with horseradish peroxidase (HRP)". In fact, the SC-101660 and SC-9713 are all from rabbit (https://www.citeab.com/antibodies/3430728-sc-101660-p-connexin-43-ser-368?des=073947ad8fca2096; https://www.citeab.com/antibodies/794519-sc-9173-g-csfr-antibody-h-176; Host: rabbit; Reactivity: Homo sapiens (Human), Mus musculus (House mouse), Rattus norvegicus (Rat).) No information of antibody BA1727 is available in the Internet. Theoretically, this experimental method is not feasible. Therefore, the correct negative control in this experiment should be in the tissue of rabbit which does not contain the detected antigen.

Due to the incorrect information of antibodies and negative controls, it is difficult to determine if the IHC is valid or not.

2. It is unnecessary to claimed that "Data are shown as the mean± SD of at least 3 independent experiments" if each group has certain number (n = 9 or 10).

3. P14, Line 30: "the G-CSF blocked the effects of G-CSF"?

4. P23, Line 27: Why the authors declared in the "Data Availability" section, " No data were used to support this study".

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

No

**Are the conclusions drawn adequately supported by the data shown?**
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