Correction to: miR-143 Activation Regulates Smooth Muscle and Endothelial Cell Crosstalk in Pulmonary Arterial Hypertension

In the article by Deng et al, “miR-143 Activation Regulates Smooth Muscle and Endothelial Cell Crosstalk in Pulmonary Arterial Hypertension,” which published in the October 23, 2015 issue of the journal (Circ Res. 2015;117:870–883. doi: 10.1161/CIRCRESAHA.115.306806), the authors have requested a correction based on errors in data presentation and analysis discovered during the PhD thesis examination of first author, Lin Deng. Specifically, the exact same cell migration pictures had been used for “vehicle” and “negative” control at the 10 h time point in the cell migration data (see Figure 3F of the original version of the article). Subsequent analysis also found errors in the migration analysis and quantification for all the migration data in the article (see original versions of Figures 3D and 3F, 4E and 4G, 5F and 5H, and Online Figure IX, part G). Lin Deng has confirmed that these errors were made unintentionally. None of the changes materially affect the key points of the manuscript, and a full evaluation of all data supplied by Lin Deng for this article has shown that there are no other errors in data presentation or analysis. The authors have now repeated the analysis of the raw migration data using the correct values and using a 1-way ANOVA with Tukey post-hoc comparisons (see corrected Figures 3D and 3F, 4E and 4G, 5F and 5H, and Online Figure IX, part G). Additionally, all the cell migration images were selected incorrectly and therefore the cell migration pictures have also been replaced to provide representative images for each condition in the experiments (see Figures 3D and 3F, 4E and 4G, 5F and 5H). According to the authors, this thorough re-evaluation of the migration data has confirmed that the biological assertions in the article were correct statistically. Although in certain instances, as detailed below, the significance level has changed, all conditions that showed significant differences compared to controls remain so; thus, the interpretation of all data remains consistent.

As noted, the following Figures have been corrected in the online version of the article:

- **Figure 3D** Image: PASMCs transfected with pre-miR-143 and bar graph - *the significance has changed from P<0.01 to P<0.05*.
- **Figure 3F** Image: PASMCs transfected with anti-miR-143 and bar graph - *the significance remains the same*.
- **Figure 4E** Image: PAECs co-cultured with PASMCs with pre-miR-143 transfection and bar graph - *the significance has changed from P<0.01 to P<0.05*.
- **Figure 4G** Image: PAECs treated with conditioned medium from PASMCs with pre-miR-143 transfection and bar graph - *the significance remains the same*.
- **Figure 5F** Image: PAECs treated with exosomes derived from PASMCs with pre-miR-143 transfection and bar graph - *the significance remains the same*.
- **Figure 5H** Image: PAECs transfected with pre-miR-143 and bar graph - *the significance has changed from P<0.01 to P<0.05*.
- **Online Figure IX G** Image: anti-miR-143 transfection inhibited the miR-143-enriched exosomes mediated PAECs migration and bar graph - *the significance remains the same*.

All authors have been alerted to the issues and have approved the content of this correction notice, and all other data in the article provided by Lin Deng has been checked and verified as correct by the authors. All new data have undergone independent review through the direction of the Institute of Cardiovascular and Medical Sciences, University of Glasgow, and confirmed that the new data are authentic and correct. The Head of Research Policy, Dr Tanita Casci, who oversees the Research Integrity portfolio at the University of Glasgow, was informed of the situation regarding the paper and was satisfied that appropriate due process had taken place by the independent reviewers.

The authors apologize for these errors and they have been noted and corrected in the online version of the article, which is available at http://circres.ahajournals.org/content/117/10/870.
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