

Correction

## Correction to: Deformability of Human Mesenchymal Stem Cells Is Dependent on Vimentin Intermediate Filaments

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This erratum is to correct the following:

- (1) In the Western Blotting subsection under the Materials and Methods section, the concentration of protein from each sample loaded into Criterion Tris–HCl gels was incorrectly stated as 155  $\mu\text{g}$  of protein. The correct value is 9.7  $\mu\text{g}$ .

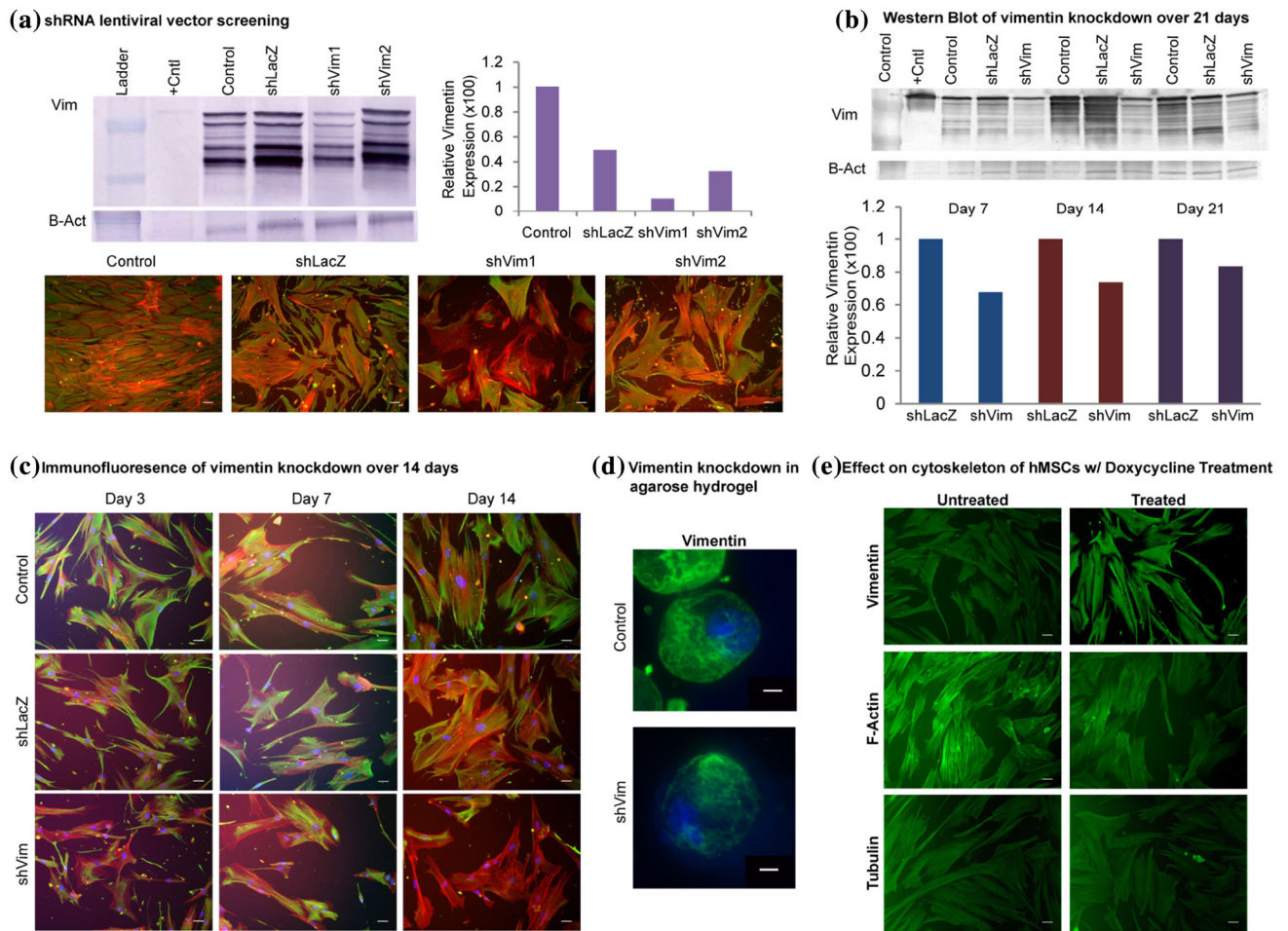
- (2) In Fig. 1b, the bar graph showed incorrect values for semi-quantitation of Western blots. Figure 1 has been updated with a corrected graph in Fig. 1b only and is shown below.

The major findings and conclusions of this paper are not affected by these changes. The protein loading error was typographical, and the validation of vimentin knockdown was confirmed by multiple methods (qRT-PCR, Western, immunofluorescence), all showing a consistent decrease in vimentin expression.

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The original article can be found online at <https://doi.org/10.1007/s10439-016-1787-z>.



**FIGURE 1.** Characterization of vimentin knockdown in hMSCs. (a) Two lentiviral vectors were screened using Western blots and immunostaining on day 14. In Western blots, '+Cntl' is a purified vimentin protein positive control for Vim and a 293FT HEK cell lysate for B-Act. Scale bar 50  $\mu\text{m}$ ; (b) characterization of knockdown by Western blot on days 7, 14, and 21 of shRNA induction. '+Cntl' is a purified vimentin protein for Vim and 293FT HEK cell lysate for B-Act; (c) observation of vimentin knockdown by immunostaining on days 3, 7, and 14 of shRNA induction; vimentin (green), F-actin (red), nucleus (blue). Scale bar 50  $\mu\text{m}$ ; (d) observation of vimentin knockdown in agarose hydrogel; vimentin (green), nucleus (blue). Scale bar 50  $\mu\text{m}$ ; (e) effect of 1  $\mu\text{g mL}^{-1}$  doxycycline treatment on cytoskeletal proteins of control, non-transduced, hMSCs. Scale bar 50  $\mu\text{m}$ .