

Safety and Efficacy of PLGA(Ag-Fe₃O₄)-Coated Dental Implants in Inhibiting Bacteria Adherence and Osteogenic Inducement under a Magnetic Field [Corrigendum]

Yang Y, Ren S, Zhang X, et al. *Int J Nanomedicine*. 2018;13:3751-3762.

The authors have advised that there were some editing errors for Figure 1C on page 3756 and Figure 3D on page 3759.

Figure 1C did not clearly depict the boundary of Ag and Fe₃O₄. Thus, this corrigendum replaces the image 1C with a better resolution, as described in the “Results” section “PLGA(Ag-Fe₃O₄) nanocomposites preparation and characterization)” on pages 3755-3756.

Image 3D has reported to have repeated region in the PLGA(Ag-Fe₃O₄) on the published proof. After a thorough check to the original images and raw data, the authors found out that there was no repeated region and hereby present the updated image for Figure 3.

Page 3756, Figure 1, the correct figure is as follows.

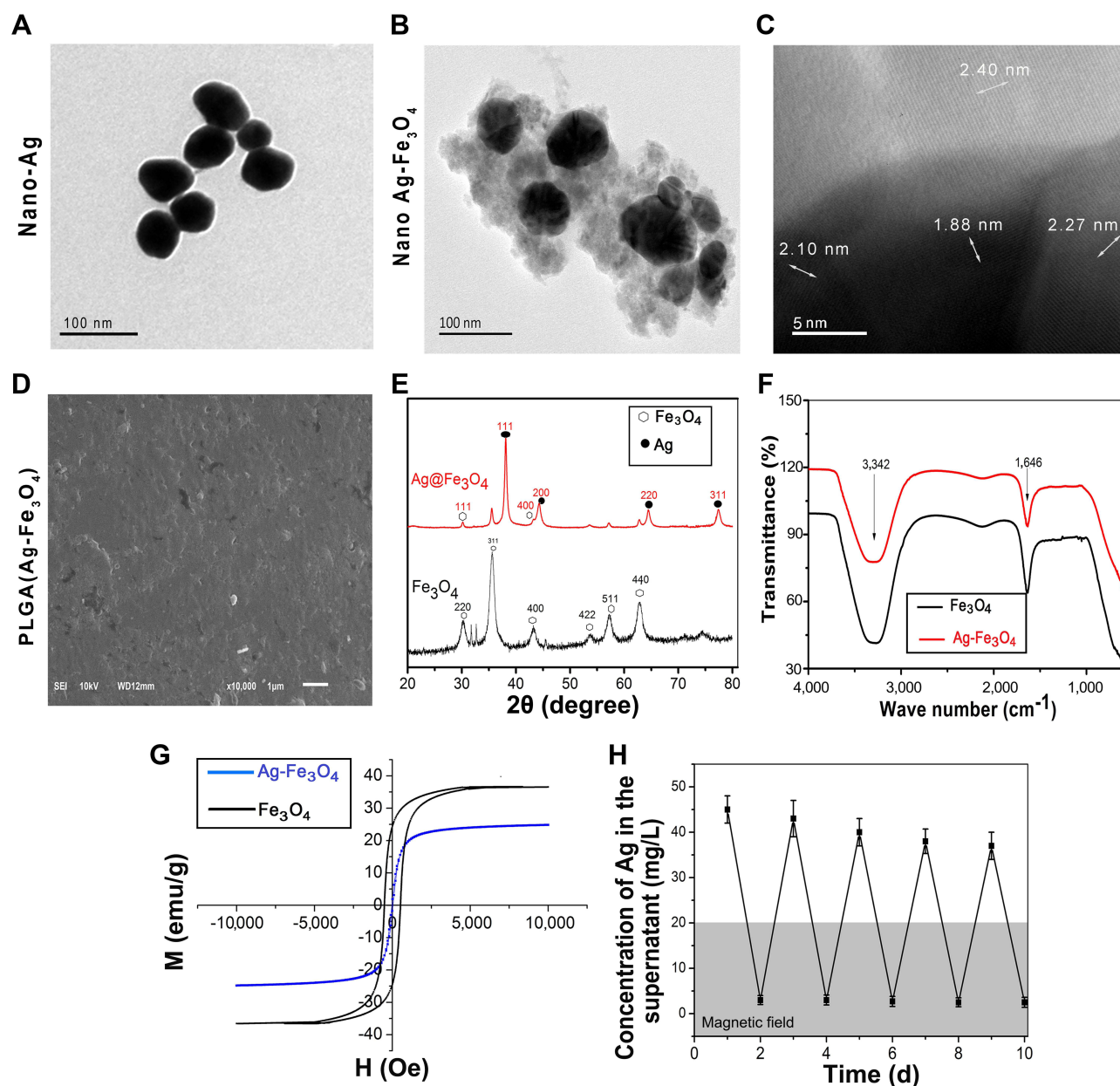


Figure 1 Characterization of PLGA(Ag-Fe₃O₄).

Notes: (A) TEM image of Ag nanoparticles. (B) TEM image of Ag-Fe₃O₄ nanoparticles. (C) HRTEM image. (D) SEM image of PLGA(Ag-Fe₃O₄) covered on the planted tooth. (E) XRD. (F) FTIR spectrum. (G) Room temperature magnetic hysteresis loops of Ag-Fe₃O₄. (H) Ag-Fe₃O₄ multiple release behavior response to the magnetic field. It meant that Ag was stably bonded with Fe₃O₄.

Abbreviations: PLGA, poly (D, L-lactic-co-glycolic acid); SEI, secondary electron image; TEM, transmission electron microscopy; M, static magnetic field; emu, electro-magnetic unit; H, magnetic field strength; Oe, oersted; SEM, scanning electron microscopy; XRD, X-ray powder diffraction; FTIR, Fourier transform infrared; HRTEM, high-resolution transmission electron microscopy; WD, working distance (the distance from the objective lens to focus point).

Page 3759, Figure 3, the correct figure is as follows.

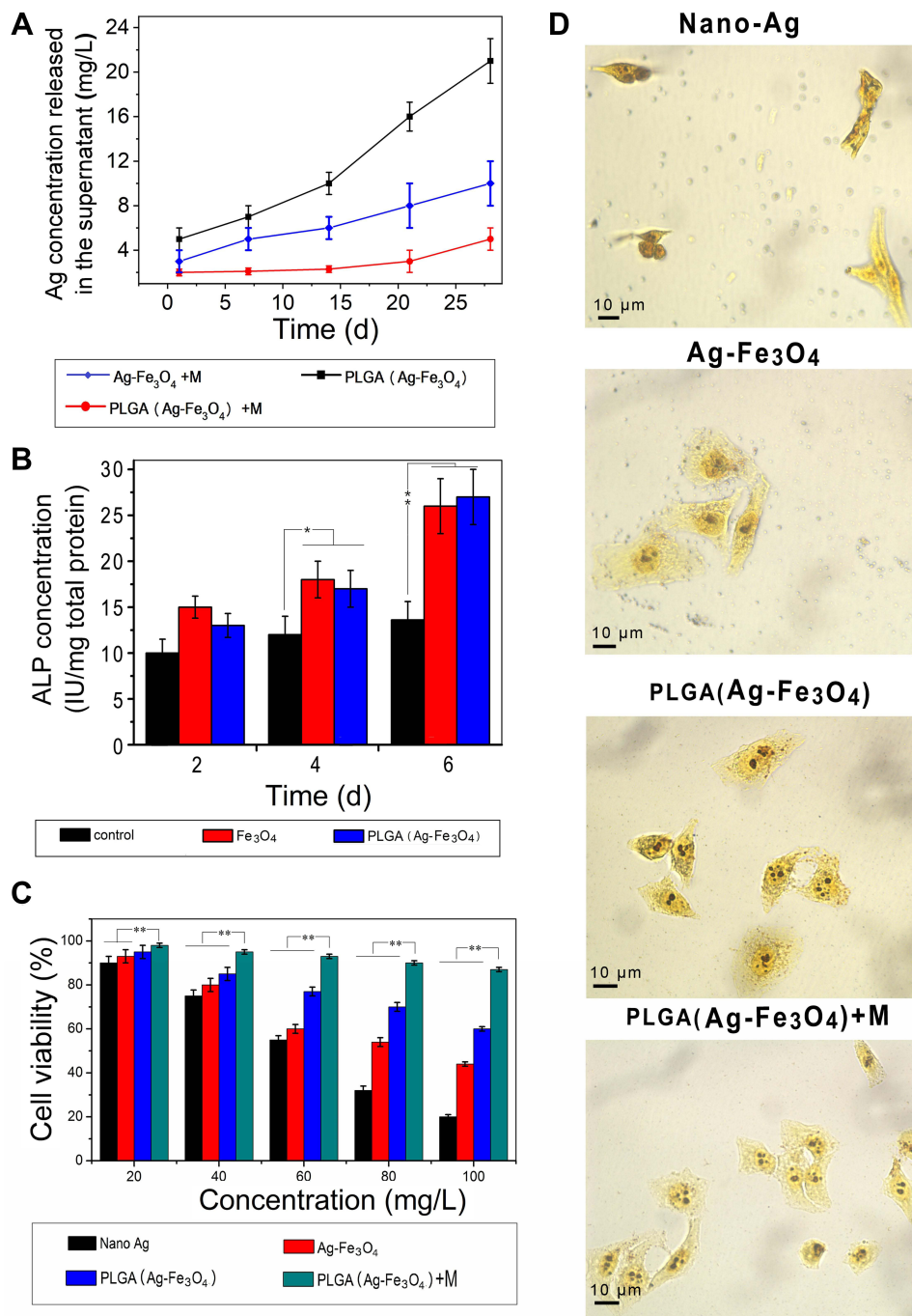


Figure 3 (A) Storage stability test result of PLGA(Ag-Fe₃O₄) nanoparticles. (B) ALP activity of osteoblasts in PBS, Fe₃O₄, or PLGA(Ag-Fe₃O₄) nanoparticles after 2, 4, and 6 days of differentiation culture; **P*<0.05. ***P*<0.01. (C) Viability of osteoblasts incubated with different concentrations of samples for 24 hours. *n*=6; ***P*<0.01. (D) AgNOR staining in nucleoli of osteoblasts cultured with different nanoparticles. Original magnification 1,000×.

Abbreviations: M, static magnetic field; PLGA, poly (D, L-lactic-co-glycolic acid); ALP, alkaline phosphatase; AgNOR, silver staining for nucleolar organizer region.

The authors apologize for these errors and advise they do not affect the results of the paper.

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