**Title:** Near complete repair after myocardial infarction in adult mice by altering the inflammatory response with intramyocardial injection of -gal nanoparticles (**Supplementary Section for** DOI: 10.3389/fcvm.2021.719160)

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Short Title: -gal nanoparticles reduce myocardial infarct size

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**SUPPLEMENTAL FIGURE LEGENDS**

**Supplemental Figure S1.** Histological sections of mouse hearts, 28 days post-MI. Sections stained with Trichrome are presented in pairs as total view of the heart (upper) and magnification of the fibrotic area (lower). **A.** Fiveadditional saline injected post-MI hearts as in Figure 3C. **B.** Fifteen additional -gal nanoparticles injected post-MI hearts as in Figure 3D. Scale in each group as indicated in the first figure from the left, unless specifically indicated. Corresponding planimetry analysis is included in Figure 3B.

**Supplemental Figure S2.** Histological sections of control mouse hearts 28 days post-MI. **A.** Mouse hearts post-MI receiving two injections each of 100g in 10l of nanoparticles lacking -gal epitopes, i.e., nanoparticles produced from cell membranes of GT-KO pig RBC. **B.** Mice as in Figure 3D injected with -gal nanoparticles, however, the GT-KO mice lack the anti-Gal antibody, i.e., mice that were not immunized with pig kidney membranes (PKM). Corresponding planimetry analysis is included in Figure 3B.



Supplemental Figure S1



Supplemental Figure S2