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CD90<sup>+</sup> cardiac fibroblasts reduce fibrosis of acute myocardial injury in rats

**Running title:** The role of CD90<sup>+</sup> cardiac fibroblasts to repair the acute myocardial injury in rats

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The authors confirmed that there are no conflicts of interest.

## Abstract

**Objective:** To explore the differentiation tendency of CD90<sup>+</sup> cardiac fibroblast (CFs) into cardiomyogenic cells *in vitro* and repair functions in acute myocardial infarction rats. **Methods:** CD90<sup>+</sup> subpopulation was sorted from rat CFs by flow cytometry. 10  $\mu$ mol/L of 5-Azacytosine (5-aza) was used to induce differentiation of CFs into

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