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shRNA interference of NLRP3 inflammasome alleviate ischemia reperfusion-induced myocardial damage through autophagy activation

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1 **shRNA interference of NLRP3 inflammasome alleviate ischemia**
 2 **reperfusion-induced myocardial damage through autophagy activation**

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12 **Running title:** shRNA interference of NLRP3 alleviate myocardial damage.

13 **Key words:** sh-NLRP3; ischemia reperfusion; myocardial damage; autophagy.

14 **Abbreviations:** I/R, ischemia-reperfusion; SD, Sprague-Dawley; KO, knock out; NLRP3,
 15 nod-like receptor protein 3; IL, interleukin; TNF- α , tumor necrosis factor α ; HE, Hematoxylin and
 16 Eosin; WT, wild type; TUNEL, Terminal-deoxynucleotidyl transferase mediated nick end labeling;
 17 LV, left ventricular; EF, end-systolic diameter; FS, fractional shortening; LVEDd, LV diameter at
 18 end-diastole; LVESD, LV diameter at end-systole; ELISA, Enzyme-linked immuno sorbent; LDH,
 19 lactic dehydrogenase; CK, creatine kinase; AST, aspartate amino transferase

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