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(54) Title: NUCLEIC ACID LOADED RED BLOOD CELL EXTRACELLULAR VESICLES

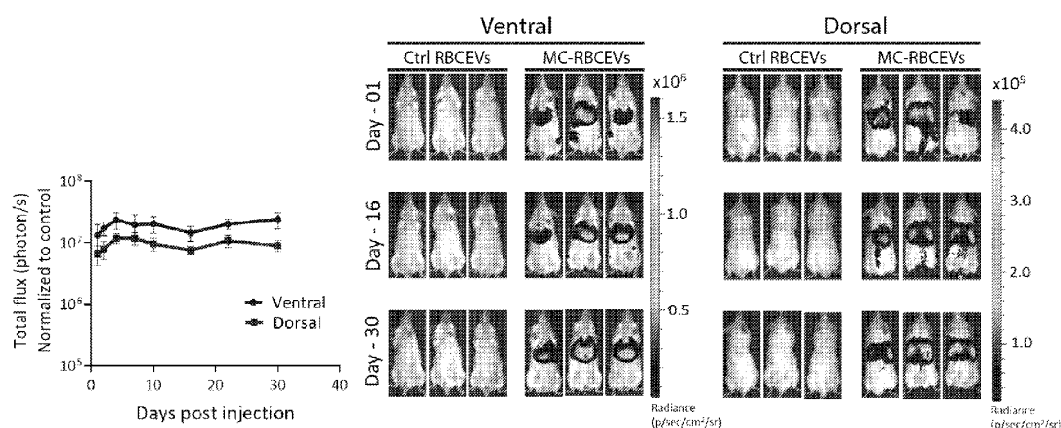


Figure 4

(57) **Abstract:** A red blood cell extracellular vesicle (RBCEV) loaded with a nucleic acid cargo; method for preparing the loaded vesicle; and the therapeutic use of the vesicle thereof are disclosed. The nucleic acid cargoes may be DNA or RNA, single stranded or double stranded, as well as linear or circular.