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(54) **Title**: REGULATION OF GLYPICAN 4 ACTIVITY TO MODULATE THE FATE OF STEM CELLS AND USES THEREOF

(57) **Abstract**: The present invention thus relates to stem cells or progenitor cells wherein the expression and/or activity of a member of the glypican family is reduced or abolished for use for the treatment of a pathological condition selected from the group consisting of a degenerative disease, a cardiac disorder, a metabolic disease and an injury by stem cell- based therapy.