# ALLEVIATION AND TREATMENT OF ISCHEMIA REPERFUSION-INDUCED LUNG INJURY USING PLURIPOTENT STEM CELLS

## ABSTRACT

The purpose of the present invention is to provide a novel medical use of pluripotent stem cells (Muse cells) in regenerative medicine. The present invention provides a cell preparation and a pharmaceutical composition which contain SSEA-3 positive pluripotent stem cells isolated from mesenchymal tissue of a living organism or cultured mesenchymal cells, and which are intended for alleviation and treatment of ischemia reperfusion-induced lung injury. The cell preparation according to the present invention is based on a mechanism in which Muse cells are administered to a subject having the abovementioned disease to engraft the cells into lung tissues, and the disease is alleviated and treated.

[FIG.1]