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(54) Title: METHOD FOR CELLULAR LIFESPAN MEASUREMENT

(57) Abstract: The present invention refers to a method for high-throughput screening of viability of cells, the method comprising the steps of: a) treating, in a well of a first multi-well plate, a sample containing cells with a condition that modulates lifespan; b) transferring a portion of the cells in the well of the first multi-well plate into a well of a second multi-well plate; c) mixing, in a well of the second multi-well plate, the portion of cells with a fluorescent viability dye to stain the cells; d) measuring fluorescence intensity of the stained cells in a plate reader to obtain a fluorescence intensity value; e) measuring optical density of the cells in the plate reader to obtain an optical density value; and f) normalizing the fluorescence intensity value with the optical density value, wherein the normalized fluorescence intensity value directly correlates with the viability of the cells.