Title (en)

IMPROVED PROLIFERATIVE CAPACITY USING CELL-CELL FUSION GENERATED HYBRIDS

Title (de)

VERBESSERTES PROLIFERATIONSVERMOGEN UNTER VERWENDUNG DURCH ZELL-ZELL-FUSION ERZEUGTER HYBRIDE

Title (fr)

CAPACITÉ PROLIFÉRATIVE AMÉLIORÉE À L'AIDE D'HYBRIDES GÉNÉRÉS PAR FUSION CELLULE-CELLULE

Publication

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Application

EP 06717046 A 20060322

Priority

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- SE 0500711 A 20050322

Abstract (en)

[origin: WO2006101444A1] The current invention concerns improving cell proliferative potential and prolonging the expected lifespan of differentiated, as well as non-differentiated cells. This is achieved through the generation of activated cells which in turn stimulate the growth of cells displaying non-dividing/senescent cell phenotypes. Activated cells are induced using cells or derivatives of the F7 cell line, and may be intra- and/or inter-species cell hybrids generated by cell-cell fusion or can be achieved using conditioned media from F7 cell culturing. Resulting activated cells have superior proliferation potential compared to the non-activated parental cell types and can be characterised by chromosomal heteroploidy/aneuploidy . The improved growth properties of the activated cells generated can be utilized directly in facilitating the clinical and medical treatment of diseases in humans and other mammals and for the repair of damaged tissues/organs, or can be utilized indirectly to provide media and/or factors with unique growth promoting and/or sustaining properties. Generation of hybrid or activated cells in accordance with the present invention provide an alternative to conventional embryonic and adult stem cells, and circumvent the need for the specialised and costly cell culture techniques required in current stem cell applications.

IPC 8 full level

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