

Title (en)  
METHOD FOR THE PREPARATION, PURIFICATION AND DIFFERENTIATION OF NEUROSPHERES FROM MAMMALIAN STEM CELLS

Title (de)  
VERFAHREN ZUR HERSTELLUNG, REINIGUNG UND DIFFERENZIERUNG VON NEUROSPHÄREN AUS SÄUGERSTAMMZELLEN

Title (fr)  
PROCEDE DE PREPARATION, DE PURIFICATION ET DE DIFFERENCIATION DE NEUROSPHERES ISSUES DE CELLULES SOUCHES DE MAMMIFERES

Publication  
**EP 1565549 A1 20050824 (EN)**

Application  
**EP 03766486 A 20030804**

Priority  
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Abstract (en)  
[origin: WO2004013315A1] Method for the preparation of a neurosphere in the form of a cellular aggregate of neural progenitors capable of terminal differentiation to form neurons and optionally additionally glial cells comprising culturing a mammalian pluripotent stem cell line in the presence of differentiating agent to form one or more cell neurospheres and isolating intact neurospheres from single cells, small cell clumps and cell debris, characterised in that cells are isolated as intact neurospheres of purity in excess of 99%; method for dissociation of neurospheres thereby producing a population of single neural progenitor cells of high purity; substantially pure neurospheres and populations of single neural progenitor cells obtained thereby; compositions thereof; the use of neurospheres and single cell populations obtained by dissociation thereof or compositions thereof in in vitro differentiation, in in vitro research, modelling in tissue culture, pharmaceutical development including drug screening toxicological testing and therapeutic cell replacement strategies including transplantation, and the like; and a method for screening using the neurospheres, dissociated cells or composition.

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