

Title (en)

PLURIPOTENT EMBRYONIC STEM CELLS AND METHODS OF OBTAINING THEM

Title (de)

PLURIPOTENT EMBRYONALE STAMMZELLEN UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

CELLULES SOUCHES EMBRYONNAIRES MULTIPOTENTES ET PROCEDES PERMETTANT DE LES OBTENIR

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Application

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Abstract (en)

[origin: CA2311396A1] The present invention provides an isolated population of non-mouse embryonic stem (ES) cells and methods of obtaining these ES cells. In one aspect, the target ES cells are obtained by co-culturing embryo cells from a target animal with non-target ES cells, such as mouse ES cells. In one embodiment, rat ES cells are isolated from the co-culture using positive or negative selectable markers. The invention also includes genetically modified non-mouse ES cells. Chimeric embryos and animals containing isolated populations of the ES cells or genetically modified ES cells are also provided. In one embodiment, the genetic modification comprises introduction of a transgene. In another embodiment, the genetic modification comprises disruption of the function of one or more genes.

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