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(54) Title: COMPOSITIONS COMPRISING HUMAN EMBRYONIC STEM CELLS AND THEIR DERIVATIVES, METHODS OF USE, AND METHODS OF PREPARATION

(57) Abstract: The present invention relates to a pharmaceutical composition comprising of preparations of human embryonic stem (hES) cells and their derivatives and methods for their transplantation into the human body, wherein transplantation results in the clinical reversal of symptoms, cure, stabilization or arrest of degeneration of a wide variety of presently incurable and terminal medical conditions, diseases and disorders. The invention further relates to novel processes of preparing novel stem cell lines which are free of animal products, feeder cells, growth factors, leukaemia inhibitory factor, supplementary mineral combinations, amino acid supplements, vitamin supplements, fibroblast growth factor, membrane associated steel factor, soluble steel factor and conditioned media. This invention further relates to the isolation, culture, maintenance, expansion, differentiation, storage, and preservation of such stem cells.



WO 2007/141657 A3

INTERNATIONAL SEARCH REPORT

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PCT/IB2007/002292

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INTERNATIONAL SEARCH REPORT

International application No

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INTERNATIONAL SEARCH REPORT

International application No

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INTERNATIONAL SEARCH REPORT

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PCT/IB2007/002292

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2007/002292

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 61-114 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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| International application No PCT/IB2007/002292 |
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