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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

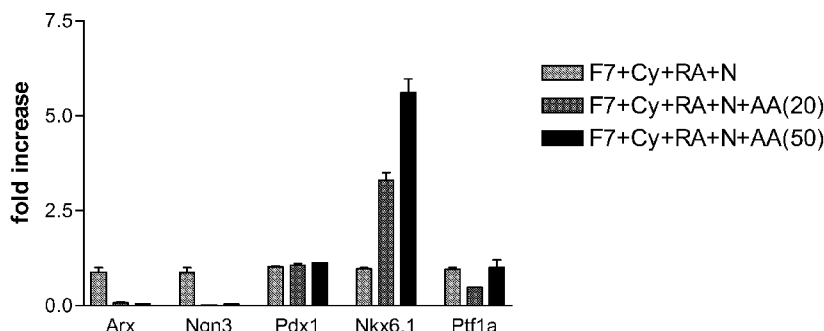
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(54) Title: DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

Figure 1



(57) Abstract: The present invention provides methods to promote the differentiation of pluripotent stem cells into insulin producing cells. In particular, the present invention provides a method to produce cells capable of producing insulin following transplantation into an animal.

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A. CLASSIFICATION OF SUBJECT MATTER*C12N 5/071(2010.01)i, C12N 5/0735(2010.01)i, C12N 5/02(2006.01)i, A61K 35/39(2006.01)i, A61P 3/10(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal), Google & PubMed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006-0281174 A1 (XU, GANG et al.) 14 December 2006 See paragraphs [0033], [0042], [0055], [0065]	1
X	US 2003-0138948 A1 (FISK, GREGORY J. et al.) 24 July 2003 See paragraphs [0028], [0096], Table1, and Claims	1
A	US 2004-0161419 A1 (STROM, STEPHEN C. et al.) 19 August 2004 See the whole document	1
A	US 2005-0208029 A1 (UMEZAWA, AKIHIRO et al.) 22 September 2005 See the whole document	1
A	US 2005-0054102 A1 (WOBUS, ANNA et al.) 10 March 2005 See the whole document	1

 Further documents are listed in the continuation of Box C. See patent family annex.

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