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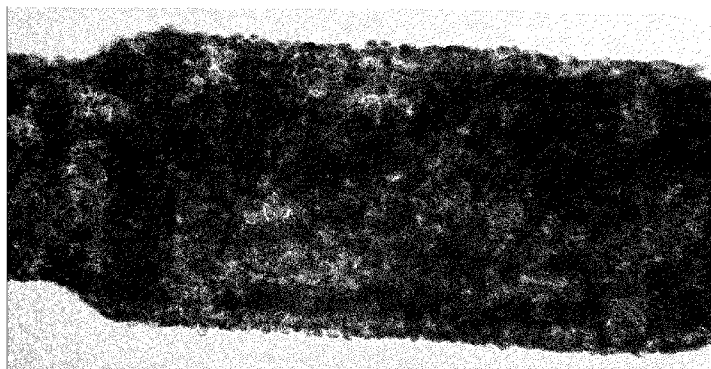
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(54) Title: METHOD OF CRYOPRESERVATION OF STEM CELL-DERIVED RETINAL PIGMENT EPITHELIAL CELLS ON POLYMERIC SUBSTRATE

FIG. 1



(57) Abstract: Disclosed herein are methods and compositions for the cryopreservation of stem cells, such as stem-cell derived retinal pigment epithelial cells, that have been seeded onto and cultured on a substrate, such as a polymeric substrate. Such cryopreserved stem cells are useful for cell therapies, such as treatment of ocular damage or disease.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/035676**A. CLASSIFICATION OF SUBJECT MATTER***C12N 1/02(2006.01)i, C12Q 1/02(2006.01)i, C12N 5/0735(2010.01)i, C12N 5/074(2010.01)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)

C12N 1/02; C12M 1/00; A01N 1/02; C12N 1/04; C12N 5/06; A61F 2/02; C12N 5/08; A61K 35/54; A01N 1/00

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) & Keywords: cell, stem cell, preservation, cryopreservation, ramp-down, substrate, parylene, flash freeze temperature.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2005-0106554 A1 (SEAN P. PALECEK et al.) 19 May 2005 See Abstract; paragraphs 0081-0085, 0112-0114, and 0119; claims 1-17.	27-30 1-26
A	US 2009-0123992 A1 (MILTON CHIN) 14 May 2009 See the whole document.	1-30
A	US 2003-0054331 A1 (JOHN K. FRASER and MARC H. HEDRICK) 20 March 2003 See the whole document.	1-30
A	US 2009-0130756 A1 (RICHARD C. KLANN et al.) 21 May 2009 See the whole document.	1-30
A	G. J. MORRIS et al. "Cryopreservation of murine embryos, human spermatozoa and embryonic stem cells using a liquid nitrogen-free, controlled rate freezer" In: Reproductive BioMedicine Online. 23 June 2006, Vol.13(3), pp.421-426, ISSN 1472-6483. See the whole document.	1-30

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

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NAZARE PEREIRA-RODRIGUES et al. "Modulation of hepatocarcinoma cell morphology and activity by parylene-C coating on PDMS" In: PLoS ONE. March 2010, Vol.5(3), p.e9667, ISSN 1932-6203. See the whole document.	1-30
A	TRACY Y. CHANG et al. "Cell and protein compatibility of Parylene-C surfaces" In: Langmuir. 2007, Vol.23(23), pp.11718-11725, ISSN 0743-7463. See the whole document.	1-30
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/035676

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