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(54) Title: METHODS FOR THE CRYOPRESERVATION OF ANIMAL CELLS THAT CONTAIN HIGH LEVELS OF INTRACELLULAR LIPIDS

(57) Abstract: A method for cryopreservation of animal cells with high level of intracellular lipid content, comprises the steps of conducting a delipidation procedure using one or more lipolytic agent(s) and/or lipogenesis inhibitors during culture of the animal cells to stimulate the hydrolysis of intracellular lipids to reduce the lipid content, and vitrifying the treated animal cells using a modified vitrification solution and a modified warming solution.



WO 2007/146253 A3

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: C12N 5/00(2006.01),5/02(2006.01)

USPC: 435/325

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)
U.S. : 435/325

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,500,608 A (FOREST et al) 31 December 2002 (31.12.2002), see abstract and columns 4, 5, 8, all lines and not column 8, lines 10-15.	1-12
Y	US 2005/0176827 A1 (LEE et al) 11 August 2005 (11.08.2005), see abstract and page 8, column 2, [0098], all lines and page 12, column 1, [0124], all lines and column 2, [0129], all lines.	5-12
Y, A	US 5,827,741 A (BEATTIE et al) 27 October 1998 (27.10.1998), see entire document.	1-15

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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