

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/ES2018/070582

## A. CLASSIFICATION OF SUBJECT MATTER

**See extra sheet**

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, A61K

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

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

EPODOC, INVENES, WPI, BIOSIS, MEDLINE, EMBASE, NPL, INTERNET

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MELEN GUSTAVO J <i>et al.</i> Influence of carrier cells on the clinical outcome of children with neuroblastoma treated with high dose of oncolytic adenovirus delivered in mesenchymal stem cells. CANCER LETTERS, 20151203 NEW YORK, NY, US. Su Changqing; Wang Hongyang, 03/12/2015, Vol. 371, N° 2, Pages 161 - 170, ISSN 0304-3835, &lt;DOI: doi:10.1016/j.canlet.2015.11.036&gt; page 162, left column, first paragraph; pages 166-168.</p>	1-21

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance.</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure use, exhibition, or other means.</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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 documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search  
14/01/2019

Date of mailing of the international search report  
**(17/01/2019)**

Name and mailing address of the ISA/

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C (continuation).		DOCUMENTS CONSIDERED TO BE RELEVANT
Category *	Citation of documents, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	TOMCHUCK SUZANNE L <i>et al.</i> Toll-like receptors on human mesenchymal stem cells drive their migration and immunomodulating responses. <i>Stem Cells (Miamisburg)</i> 2008, Vol. 26, N° 1, Pages 99-107, ISSN 1066-5099, <DOI: doi:10.1634/stemcells.2007-0563> page 99, left column; page 101, right column, third and fourth paragraphs; page 104, right column; page 5; page 106, right column, last paragraph.	1-21
A	ZHANG LI <i>et al.</i> The role of Toll-like receptor 3 and 4 in regulating the function of mesenchymal stem cells isolated from umbilical cord. <i>International Journal of Molecular Medicine</i> APR 2015, Vol. 35, N° 4, Pages 1003-1010, ISSN 1107-3756(print) ISSN 1791-244X(electronic), <DOI: doi:10.3892/ijmm.2015.2106> page 1003, right column; page 1008, right column; page 1010, left column; abstract.	1-21
A	CERULLO VINCENZO <i>et al.</i> An Oncolytic Adenovirus Enhanced for Toll-like Receptor 9 Stimulation Increases Antitumor Immune Responses and Tumor Clearance. <i>Molecular Therapy</i> NOV 2012, Vol. 20, N° 11, Pages 2076-2086, ISSN 1525-0016(print) ISSN 1525-0024(electronic), <DOI: doi:10.1038/mt.2012.137> left column, second paragraph and page 2084, left column, second paragraph.	1-21
A	GARCIA-CASTRO J <i>et al.</i> Treatment of metastatic neuroblastoma with systemic oncolytic virotherapy delivered by autologous mesenchymal stem cells: an exploratory study. <i>Cancer Gene Therapy</i> JUL 2010, Vol. 17, N° 7, Pages 476-483, ISSN 0929-1903, <DOI: doi:10.1038/cgt.2010.4> pages 476, 479 and 480.	1-21
A	RINCON ESTHER <i>et al.</i> Mesenchymal stem cell carriers enhance antitumor efficacy of oncolytic adenoviruses in an immunocompetent mouse model. <i>Oncotarget</i> JUL 11 2017. 11/07/2017, Vol. 8, N° 28, Pages 45415-45431, ISSN 1949-2553(print) ISSN 1949-2553(electronic), <DOI: doi:10.18632/oncotarget.17557> page 45415; page 45416, left column, second paragraph and page 45420, left column, third paragraph; page 45422, left column, first and second paragraph; abstract.	1-21

**CLASSIFICATION OF SUBJECT MATTER**

*C12N5/077* (2010.01)

*C12N5/0775* (2010.01)

*A61K35/12* (2015.01)

*A61K35/28* (2015.01)