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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 73 7194

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X,P	WON YOUNG-WOOK ET AL: "Cell surface engineering to enhance mesenchymal stem cell migration toward an SDF-1 gradient", BIOMATERIALS, vol. 35, no. 21, 14 April 2014 (2014-04-14), pages 5627-5635, XP028649177, ISSN: 0142-9612, DOI: 10.1016/J.BIOMATERIALS.2014.03.070 * the whole document *	1-16	INV. A61K9/127 G01N33/53 A61K49/00 A61K35/28 C12N5/00 C12N5/0775 A61K35/12 A61K47/64 A61K47/69
A	US 2008/070830 A1 (DZAU VICTOR J [US] ET AL) 20 March 2008 (2008-03-20) * abstract * * paragraph [0004] - paragraph [0016] *	1-16	
A	US 2011/165128 A1 (DORONIN SERGEY V [US] ET AL) 7 July 2011 (2011-07-07) * abstract * * claims 1-63 * * paragraph [0007] - paragraph [0008] *	1-16	TECHNICAL FIELDS SEARCHED (IPC)
A	MATTHIAS T. STEPHAN ET AL: "Enhancing cell therapies from the outside in: Cell surface engineering using synthetic nanomaterials", NANO TODAY, vol. 6, no. 3, 1 June 2011 (2011-06-01), pages 309-325, XP055399632, NL ISSN: 1748-0132, DOI: 10.1016/j.nantod.2011.04.001 * page 2 - page 4 * * page 26 * * abstract *	1-16	A61K

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The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
The Hague	18 August 2017	Langer, Oliver

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
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T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
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A	LEE RANDALL J ET AL: "Antibody targeting of stem cells to infarcted myocardium", STEM CELLS, ALPHAMED PRESS, DAYTON, OH, US, vol. 25, no. 3, 1 March 2007 (2007-03-01), pages 712-717, XP002602578, ISSN: 1066-5099, DOI: 10.1634/STEMCELLS.2005-0602 [retrieved on 2006-11-30] * abstract *	1-16	
A	ZHAO W ET AL: "Chemistry and material science at the cell surface", MATERIALS TODAY, ELSEVIER, AMSTERDAM, NL, vol. 13, no. 4, 1 April 2010 (2010-04-01), pages 14-21, XP026978792, ISSN: 1369-7021 [retrieved on 2010-03-19] * the whole document *	1-16	
A	MEDOF M EDWARD ET AL: "Cell-surface engineering with GPI-anchored proteins", THE FASEB JOURNAL, FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, US, vol. 10, no. 5, 1 January 1996 (1996-01-01), pages 574-586, XP002763532, ISSN: 0892-6638 * the whole document * * abstract *	1-16	TECHNICAL FIELDS SEARCHED (IPC)

-/--

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T	LIM KWANG SUK ET AL: "Cell surface-engineering to embed targeting ligands or tracking agents on the cell membrane", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ELSEVIER, AMSTERDAM, NL, vol. 482, no. 4, 29 November 2016 (2016-11-29), pages 1042-1047, XP029881245, ISSN: 0006-291X, DOI: 10.1016/J.BBRC.2016.11.155 * the whole document * -----		

TECHNICAL FIELDS SEARCHED (IPC)

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 15 73 7194

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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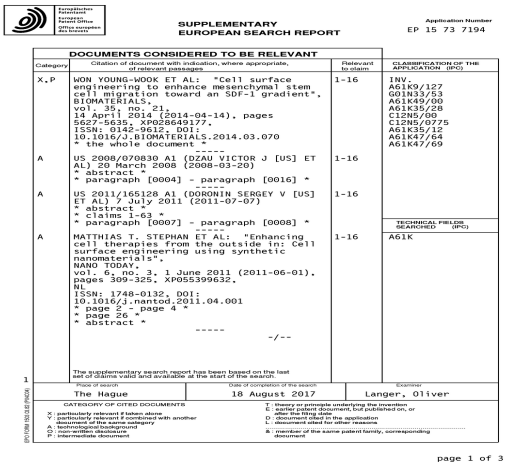
18-08-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008070830 A1	20-03-2008	NONE	
US 2011165128 A1	07-07-2011	US 2011165128 A1	07-07-2011
		WO 2009134532 A2	05-11-2009

专利名称(译)	用于修饰细胞表面的组合物和方法以及使用方法		
公开(公告)号	EP3096742A4	公开(公告)日	2017-09-27
申请号	EP2015737194	申请日	2015-01-20
[标]申请(专利权)人(译)	犹他大学研究基金会		
申请(专利权)人(译)	UTAH研究基金会大学		
当前申请(专利权)人(译)	UTAH研究基金会大学		
[标]发明人	WON YOUNG WOOK BULL DAVID A PATEL AMIT N		
发明人	WON, YOUNG-WOOK BULL, DAVID, A. PATEL, AMIT, N.		
IPC分类号	A61K9/127 G01N33/53		
CPC分类号	A61K47/60 A61K35/28 A61K47/64 A61K47/6425 A61K47/6911 A61K49/0041 A61K49/0047 A61K49/0084 A61K2035/124 C12N5/0006 C12N5/0662 C12N5/0663		
优先权	61/929430 2014-01-20 US		
其他公开文献	EP3096742A1		
外部链接	Espacenet		

摘要(译)

本文描述了用治疗相关的靶向部分修饰活细胞表面的化合物，组合物和方法。本文还描述了在受试者中用所述组合物治疗疾病状态（例如急性心肌缺血或梗塞）的方法。



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