

(19)



(11)

**EP 2 659 913 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**12.02.2014 Bulletin 2014/07**

(51) Int Cl.:  
**A61K 49/00** <sup>(2006.01)</sup> **G01N 33/53** <sup>(2006.01)</sup>  
**G01N 33/567** <sup>(2006.01)</sup> **G01N 33/68** <sup>(2006.01)</sup>

(43) Date of publication A2:  
**06.11.2013 Bulletin 2013/45**

(21) Application number: **13163588.0**

(22) Date of filing: **13.06.2007**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR  
HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE  
SI SK TR**

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(30) Priority: **13.06.2006 US 813170 P  
05.01.2007 US 878730 P**

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(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
**07796099.5 / 2 026 845**

(71) Applicant: **The Rockefeller University  
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(54) **Method to identify p11 modulators**

(57) The present invention relates to the use of p11 as a drug target as well as a tool for the diagnosis, treatment and development of p11/5-HT receptor related disorders. The invention further relates to p11 knock-out animals as well as p11 transgenic animals and their use

as models for the development of novel psychotherapeutic agents, and to methods of diagnosis, prophylaxis and treatment of p11/5-HT receptor related disorders.

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EUROPEAN SEARCH REPORT

Application Number  
EP 13 16 3588

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	WO 2005/066371 A2 (PENN STATE RES FOUND [US]; AL-MURRANI SAMER [US]) 21 July 2005 (2005-07-21) * paragraphs [0036] - [0044]; examples 6,7 * * page 19, last paragraph - page 20, paragraph 1 *	1,3,10, 11,15	INV. A61K49/00 G01N33/53 G01N33/567 G01N33/68
X	X.-L. HUANG: "Epidermal Growth Factor Induces p11 Gene and Protein Expression and Down-regulates Calcium Ionophore-induced Arachidonic Acid Release in Human Epithelial Cells", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 277, no. 41, 5 August 2002 (2002-08-05), pages 38431-38440, XP055078503, ISSN: 0021-9258, DOI: 10.1074/jbc.M207406200 * abstract *	1,12,13	
Y		1-5, 10-15	TECHNICAL FIELDS SEARCHED (IPC)
X,P	SVENNINGSSON ET AL: "p11 (S100A10) - an inducible adaptor protein that modulates neuronal functions", CURRENT OPINION IN PHARMACOLOGY, ELSEVIER SCIENCE PUBLISHERS, NL LNKD- DOI:10.1016/J.COPH.2006.10.001, vol. 7, no. 1, 20 January 2007 (2007-01-20), pages 27-32, XP005854714, ISSN: 1471-4892 * the whole document * * table 2 *	1-5, 10-15	G01N
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<del>The present search report has been drawn up for all claims</del>			
Place of search <b>The Hague</b>		Date of completion of the search <b>10 September 2013</b>	Examiner <b>Gundlach, Björn</b>
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 P : intermediate document		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 L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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EPO FORM 1503 03.02 (P04C01)



EUROPEAN SEARCH REPORT

Application Number  
EP 13 16 3588

DOCUMENTS CONSIDERED TO BE RELEVANT			
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<del>The present search report has been drawn up for all claims</del>			
Place of search <b>The Hague</b>		Date of completion of the search <b>10 September 2013</b>	Examiner <b>Gundlach, Björn</b>
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 P : intermediate document		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 L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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EPO FORM 1503.03.82 (P/04/C01)



Application Number  
EP 13 16 3588

### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:  
1-5, 10-15(all partially)
- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 13 16 3588

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5, 10-15(all partially)

Method to identify p11 modulators up-regulating p11 expression, cells, uses and kits (comprising options (A) and (C) in claim 1).  
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2. claims: 6-9(completely); 1-5, 10-15(partially)

Method to identify p11 modulators in association with 5-HT1B, cells, uses and kits (comprising options (B), (D) and (E) in claim 1).  
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ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 13 16 3588

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-09-2013

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		CN 102321584 A	18-01-2012
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专利名称(译)	鉴定p11调节剂的方法		
公开(公告)号	<a href="#">EP2659913A3</a>	公开(公告)日	2014-02-12
申请号	EP2013163588	申请日	2007-06-13
[标]申请(专利权)人(译)	洛克菲勒大学		
申请(专利权)人(译)	洛克菲勒大学		
当前申请(专利权)人(译)	洛克菲勒大学		
[标]发明人	SVENNINGSSON PER GREENGARD PAUL		
发明人	SVENNINGSSON, PER GREENGARD, PAUL		
IPC分类号	A61K49/00 G01N33/53 G01N33/567 G01N33/68		
CPC分类号	A01K67/0275 A01K67/0276 A01K2217/052 A01K2217/075 A01K2217/20 A01K2227/105 A01K2267/0356 A61P1/00 A61P1/04 A61P1/14 A61P15/00 A61P15/10 A61P25/00 A61P25/18 A61P25/20 A61P25/22 A61P25/24 A61P25/28 A61P25/30 A61P43/00 C07K14/4721 C07K2319/41 C12N15/8509 C12N2830/003 C12Q1/6883 C12Q2600/136 C12Q2600/158 G01N33/6896 G01N33/942 G01N2500/00 G01N2500/04 G01N2800/30 G01N2800/304 Y10T436/143333 C12N15/09 C12Q1/6886 G01N33/53 A61K49/0008 C12Q1/6876 C12Q2600/106 C12Q2600/178 G01N33/68 G01N2333/46 G01N2500/10		
优先权	60/813170 2006-06-13 US 60/878730 2007-01-05 US		
其他公开文献	EP2659913A2 EP2659913B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明涉及p11作为药物靶标的用途以及用于诊断, 治疗和开发p11 / 5-HT受体相关病症的工具。本发明还涉及p11敲除动物以及p11转基因动物及其作为开发新型精神治疗剂的模型的用途, 以及诊断, 预防和治疗p11 / 5-HT受体相关病症的方法。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2005/066371 A2 (PENN STATE RES FOUND [US]; AL-HURRAI SAHER [US]) 21 July 2005 (2005-07-21) * paragraphs [0036] - [0044]; examples 6,7 * page 19, last paragraph - page 20, paragraph 1	1, 3, 10, 11, 15	INV. A61K49/00 G01N33/53 G01N33/567 G01N33/68
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X,P	SVENNINGSSON ET AL.: "p11 (S100A10), an inducible adaptor protein that mediates neuronal functions" CURRENT OPINION IN PHARMACOLOGY, ELSEVIER SCIENCE PUBLISHERS, NL, LIND- DOI: 10.1016/j.coph.2006.10.001, vol. 7, no. 1, 20 January 2007 (2007-01-20), pages 27-32, XP005854714, ISSN: 1473-4892 * the whole document * * table 2 *		

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1 The present search report has been drawn up for all claims

1 Field of search: The Hague 10 September 2013 Gundlach, Björn

1 Date of completion of the search

1 Examiner

1 INVENTOR(S)

1 CLASSIFICATION OF THE APPLICATION (IPC)

1 I. Primary or auxiliary underlying classification

2. Particularly relevant if taken alone

3. Particularly relevant if combined with another

A. Reasoning of the examiner

B. Non-relevant classification

C. Intermediate document

D. Document cited for other reasons

E. Member of the same patent family, corresponding document