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(54) Title: REGULATION OF HUMAN CALCIUM-INDEPENDENT ALPHA-LATRO-TOXIN-LIKE G PROTEIN-COUPLED RECEPTOR

(57) Abstract: Reagents which regulate human calcium-independent alpha-latrotoxin-like G protein-coupled receptor (CIRL) and reagents which bind to human CIRL gene products can play a role in preventing, ameliorating, or correcting dysfunctions or diseases associated with aberrant exocytosis in both the endocrine system and the nervous system.

INTERNATIONAL SEARCH REPORT

Intern ıal Application No
PCT/EP 01/06088

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/705 C07K16/28 G01N33/566 G01N33/94 C12N15/11
C12N9/00 C12N9/04 C12N15/63 A61K38/00

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)
IPC 7 C07K G01N A61K C12N

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 practical, search terms used)
SEQUENCE SEARCH, MEDLINE, BIOSIS, EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 39440 A (NEW YORK UNIVERSITY) 11 September 1998 (1998-09-11) abstract page 6, line 15 -page 7, line 25 page 8, line 29 -page 9, line 5 page 9, line 24 -page 10, line 15 page 11, line 14 - line 30 figures 2A,,2B page 36, line 9 -page 44, line 21 table 1 page 45, line 11 - line 24 page 58, line 18 -page 59, line 27 page 60, line 11 - line 26 claims 1-44 -/--	1-13, 15-36, 38-45, 47-54, 57-59, 61,64, 67-70

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"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)

"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

"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

"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

"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.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
13 March 2002	05/04/2002

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Keller, Y

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Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	A.J.W. ZENDMANN ET AL.: "TM7XN1 a novel human EGF-TM7 like cDNA detected with mRNA differential display using human melanoma cell lines with different metastasic potential." FEBS LETTERS, vol. 446, 1999, pages 292-298, XP002192948 abstract figures 2,4 page 297, column 1, paragraph 1 page 297, column 1, paragraph 3 -column 2, paragraph 1 ---	1-8
X	K. ICHTCHENKO ET AL.: "a novel ubiquitously expressed alfa-latrotoxin receptor is a member of the CIRL family of G-protein-coupled receptors" THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 274, no. 9, pages 5491-5496, XP000828192 abstract page 5491, column 2, paragraph 3 figure 1 page 5493, column 1, paragraph 1 page 5493, column 2, paragraph 1 - paragraph 4 page 5493, column 2, paragraph 5 -page 5494, column 2, paragraph 1 page 5497, column 1, paragraph 1 - paragraph 2 page 5497, column 2, paragraph 2 ---	1-8
A	S. SUGITA ET AL.: "alfa-latrotoxin receptor CIRL/latrophilin 1 (CL1) defines a unusual family of ubiquitous G-protein linked receptors" THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 273, no. 49, December 1998 (1998-12), pages 32715-32724, XP000946649 the whole document -----	

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 55, 56, 60, 63, 65, 66, 71-75

Present claims 55, 56, 60, 63, 65, 66, 71-75 relate to an extremely large number of possible compounds/products. In fact, the claims contain so many options, variables, possible permutations and provisos that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear.
Furthermore said claims cover all products/compounds (e.g. so called reagents) having agonist, antagonist, etc... properties whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for NO such products/compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product/compound/method/apparatus by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the products/compounds/methods.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

...ormation on patent family members

Intern ...al Application No
PCT/EP 01/06088

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9839440 A	11-09-1998	AU 6685398 A	22-09-1998
		WO 9839440 A2	11-09-1998