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(54) Title: HETEROOLIGOMERIC SEROTONIN/GLUTAMATE RECEPTOR COMPLEX

(57) Abstract: The present invention relates generally to heteroreceptor G-protein coupled receptors, and more specifically to a heteroreceptor complex comprising serotonin and glutamate receptors, as well as to methods for identifying modulators (agonists and antagonists) of such receptors. The invention also relates to identification of novel heteroreceptor ligands and synergistic compositions, which can provide strategies for relieving psychosis associated with schizophrenia or hallucinogenic drug use.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 09/33469

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C12N 5/06, C12N 5/16 (2009.01)

USPC - 435/334

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)

USPC: 435/334

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 435/7.1, 435/7.2, 435/7.8; 436/501; 530/326Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO--Chemical Engineering and Biotechnology Abstracts, INSPEC, NTIS (National Technical Information Service), PASCAL, Current Contents Search, MEDLINE
Search Terms: 5HT2A-serotonin receptor, glutamate receptor (mGluR2), recombinant, host, brain cortical, reporter

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SCHOEPP. Unveiling the Functions of Presynaptic Metabotropic Glutamate Receptors in the Central Nervous System. J Pharmacol & Exp Therapeut, 2001, Vol 299, No 1, pp 12-20, pg 15, col 1, ln 10-12, ln 21-22; pg 15, col 2, para 2, ln 7-8, ln 21; pg 15, para 2, ln 26; pg 17, col 1, ln 9-12; pg 18, col 1, para 4, ln 4; title	1-5
Y		7-43
X	US 6,855,807 B1 (Devi et al.) 15 February 2005 (15.02.2005) col 3, ln 10, ln 66-67; col 4, ln 4-15, ln 21, 23, ln 33-35, ln 54, ln 57, ln 64-66; col 7, ln 16-18, ln 25, ln 36, ln 56-57, ln 66-67; col 12, ln 39; col 17, ln 18, ln 45-49; col 19, ln 67-col 20, ln 2; col 23, ln 59-60; col 25, ln 31-32; col 34, ln 5	6
Y		7-43
Y	US 2002/0006925 A1 (Pei et al.) 17 January 2002 (17.01.2002) para [0247], [0248]	14-17
Y	US 6,358,975 B1 (Eliasson et al.) 19 March 2002 (19.03.2002) col 9, ln 35-36	15
Y	WO 2005/038006 A2 (Gupta et al.) 28 April 2005 (28.04.2005) para [0059], [0070]	20-21 and 24
Y	US 2006/0292694 A1 (Clark et al.) 28 December 2006 (28.12.2006) para [0055]	26-27
Y	US 2003/0153576 A1 (Robichaud et al.) 14 August 2003 (14.08.2003) para [0005], [0460]	28-29
Y	Moghaddam et al. Reversal of Phencyclidine Effects by a Group II Metabotropic Glutamate Receptor Agonist in Rats. Science, 1998, Vol 281, pg 1349-1352, abstract only	30-31

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

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"&" document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

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