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(54) **Title:** METHODS AND COMPOSITIONS FOR MODULATING BRAIN DAMAGE

(57) **Abstract:** Methods and compositions for modulating brain damage mediated by non-NMDA ionotropic glutamate receptor antagonists are provided. Methods for inhibiting neuronal cell damage and death in the brain following an injury (e.g., ischemic/hypoxic injury) and methods for inhibiting cell damage and death in conditions such as periventricular leukomalacia, cerebral palsy, mental retardation, and neonatal stroke, are also provided. These methods generally involve treating a subject with a non-NMDA ionotropic glutamate receptor antagonist. Pharmaceutical and packaged formulations that include non-NMDA ionotropic glutamate receptor antagonists are also provided.



WO 03/011271 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/13, 31/44, 31/70, 31/135

US CL : 514/45, 284, 289, 647, 661, 662

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)

U.S. : 514/45, 284, 289, 647, 661, 662

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,438,130 A (GOLDIN et al.) 01 August 1995 (01.08.95), see the entire document.	1-48
A	US 5,506,231 A (LIPTON) 09 April 1996 (09.04.96), see the entire document.	1-48

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"&" document member of the same patent family

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