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(54) Title: ANTICANCER POLYPEPTIDE-METAL COMPLEXES AND COMPOSITIONS, METHODS OF MAKING, AND METHODS OF USING SAME

(57) Abstract: Novel drug complexes comprising a polypeptide carrier moiety comprising glutamic acid and at least one of the group consisting of aspartic acid, alanine, asparagine, glutamine, glycine, and any combinations thereof, are disclosed. The drug moiety is a therapeutic metal selected from the group consisting of platinum, iron, gadolinium, rhenium, manganese, cobalt, inium, gallium or rhodium. Methods for making said complexes, compositions comprising said complexes, methods for making said compositions, and methods for treating a patient comprising use of said complexes and/or compositions are further disclosed.



WO 2003/017923 A3

INTERNATIONAL SEARCH REPORT

International application No. **01/00100**
 PCT/US02/21624
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A. CLASSIFICATION OF SUBJECT MATTER
 IPC(7) :A61K 38/00, 38/00, 38/32; C07K 14/00
 US CL :Please See Extra Sheet.
 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. : 514/21, 12; 530/342, 345, 402, 408, 409, 410; 424/600, 604, 639, 643, 646, 649

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)
 Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,366,723 A (TULOK) 22 November 1994, abstract, cols. 1-2 and claims 1-11.	1-54
Y	SCHECHTER et al. Increased Therapeutic Efficacy of Cis-Platinum Complexes of Poly-L-Glutamic Acid Against a Murine Carcinoma. Int. J. Cancer. 1987, Vol. 39, pages 409-413, especially pages 409 and 412-413, and Tables II and III.	1-54
Y	SONG et al. Rapid Report A Novel Polymeric Conjugate carrying Two Different Anticancer Drugs. 1999, Vol. 48, pages 627-629.	1-54
Y	US 4,675,381 A (BICHON) 23 June 1987, abstract, cols. 1-6 and Example 10.	1-4, 8-18, 20-23, 28-31, 36-39, 44-49 and 54

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

* Special categories of cited documents:	"I"	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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier document published on or after the international filing date	"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
"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)	"&"	document member of the same patent family
"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		

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,087,616 A (MYERS et al) 11 February 1992, abstract, cols. 3-8, claims 1-4, 6 and 10.	1-4, 8-18, 20-23, 28-31, 36-39, 44-49 and 54
P, Y	US 6,333,422 B1 (SOHN et al) 25 December 2001, abstract and cols. 2-4.	1-54
A	US 4,673,754 A (SMITH et al) 16 June 1987, cols. 1-8.	1-54

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B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

APS, CAS ONLINE, DIALOG, MEDLINE, EMBASE, BIOSIS, WPIDS

search terms: polypeptide, metal complex, composition, glutamic acid, aspartic acid, alanine, asparagine, glutamine, glycine, platinum, iron, gadolinium, rhenium, manganese, cobalt, indium, rhodium, carcino? or neoplsam? or tumor? or tumour? agent or drug moiety or therapeutic metal.