

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number

EP 95 92 9543

		DERED TO BE RELEVANT	Т	
ategory	Citation of document with of relevant pas	indication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)
P,X	P450 2B1 GENE" HUMAN GENE THERAPY	ING THE CTIVATING CYTOCHROME , ust 1994, pages 969-978,	1,2, 4-10,12, 13	C12N9/02 A61K48/00 A01N43/04 A61K31/70 C12N5/00 C12N15/00 C12N15/09 C12N15/63 C12N15/74
P,X	;CHEN SHU HSIA (US 2 March 1995	LOR COLLEGE MEDICINE); WOO SAVIO L C (US)) ; claims 1,16,39,55*	2-4,8	C07K1/00 C07K14/00
Y	EXPRESSION OF HUMAN C3H/10T1/2 CELLS COBY	"RETROVRIAL MEDIATED N CYTOCHROME P450 2A6 IN DNFERS TRANSFORMABILITY NO)-1-(3-PYRIDYL)-1-BUTA	1-13	
	NONE (NNK)" CARCINOGENESIS, vol. 14, no. 7, Ju 1421-1427, XP002040		TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
	*see the abstract a	and discussion *		C12N A61K
	17 November 1992	BOIN HARRY V ET AL) col. 7, line 45 - col.	1-13	
ı s	The supplementary search repo set of claims valid and available	t has been based on the last at the start of the search.		
	Place of search	Date of completion of the search		Examiner
	MUNICH	11 February 1999	Iser	rt, B
X : partice Y : partice docum A : techno O : non-w	EGORY OF CITED DOCUMENTS ularly relevant if taken alone ularly relevant if combined with anothent of the same category ological background rritten disclosure lediate document	L : document cited for	ment, but publish the application other reasons	ed on, or

2

EPD FORM 1503 03.82 (P04C04)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 95 92 9543

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.

11-02-1999

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9505835	A	02-03-1995	US AU AU CA EP JP	5631236 A 677430 B 7677694 A 2169260 A 0719147 A 9504784 T	20-05-199 24-04-199 21-03-199 02-03-199 03-07-199 13-05-199
US 5164313	A	17-11-1992	US US US US	5506131 A 5506138 A 5660986 A 5356806 A	09-04-199 09-04-199 26-08-199 18-10-199

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

CLAIMS

The use of a viral vector, said vector carrying a cytochrome P450 gene, wherein expression of the gene product renders central nervous system tumour cells sensitive to a chemotherapeutic agent independent of the cell cycle of said tumour cells, in the manufacture of a medicament for the treatment of central nervous system tumours.

The use of a viral vector, said vector carrying a cytochrome P450 gene, wherein the expression product of the gene activates a chemotherapeutic agent to a cytotoxic metabolite, in the manufacture of a medicament for the treatment of malignant tumours.

3. The use of a viral vector, said vector carrying a cytochrome P450 gene, wherein expression of the gene product renders peripheral tumour cells sensitive to a chemotherapeutic agent independent of the cell cycle of said tumour cells, in the manufacture of a medicament for the treatment of peripheral tumours.

- 25 4. The use as claimed in any one of claims 1 to 3, wherein said cytochrome gene is P450 2B1, P450 2B6, P450 2A6, P450 2C6, P450 2C8, P450 2C9, P450 2C11, or P450 3A4.
- $\frac{5}{30}$ 5. The use as claimed in claim 4, wherein said cytochrome gene is P450 2B1.
 - 6. The use as claimed in any one of claims 1 to 5, wherein said chemotherapeutic agent is cyclophosphamide or ifosphamide.

- 7. The use as claimed in claim 6, wherein said chemotherapeutic agent is cyclophosphamide.
- 8. The use as claimed in any one of claims 1 to 7, wherein said viral vector is a retrovirus.
- 9. The use as claimed in any one of claims 1, or 4 to 8, wherein said central nervous system tumour cells are astrocytomas, oligodendrogliomas, meningiomas, neurofibromas, glioblastomas, ependymomas, Schwannomas, or neurofibrosarcomas.
- 10. The use as claimed in any one of claims 2 or 4 to 8 wherein the malignant tumour is located in the central //
- 12. The use of a viral vector, said vector carrying a cytochrome P450 2B1 gene, wherein expression of the gene product renders central nervous system tumour cells sensitive to cyclophospheride independent of the cell cycle of the tumour cells, in the manufacture of a medicament for the treatment of central nervous system tumours.

20

13. The use of a viral vector, said vector carrying a cytochrome P450 2B1 gene, wherein the expression product of the gene activates cyclophospheride to a cytotoxic metabolite, in the manufacture of an agent to enhance the efficiency of a chemotherapeutic agent in treating malignant tumours.