

Title (en)
GENE TRANSFER FOR DRUG RESISTANCE

Publication
EP 0386002 A4 19900926 (EN)

Application
EP 88906678 A 19880526

Priority
GB 8712528 A 19870528

Abstract (en)
[origin: EP0293193A2] A method for sensitizing mammalian tumor cells which comprises the step of inserting a drug sensitivity gene into the tumor cell. Also disclosed is the use of hypoxanthine phosphoribosyltransferase for the treatment of leukemia when the drug 6-thioguanine is used. The method employs a composition of matter which includes a 3 min long terminal repeat and a 5 min long terminal repeat, each repeat containing a restriction enzyme site; between the repeats is inserted a promoter and/or enhancer gene and the drug sensitivity gene. All of the elements of the DNA are linked and spatially positioned, such that, when the gene is inserted into a target cell the drug sensitivity gene is expressed.

IPC 1-7
C12P 21/00; **C12P 19/34**; **C12N 7/00**; **C12N 15/00**; **A01N 63/02**; **A61K 37/48**

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [X] WO 8600922 A1 19860213 - SALK INST FOR BIOLOGICAL STUDI [US]
• [X] THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 259, no. 12, 25th June 1984, pages 7842-7849, the American Society of Biological Chemists, Inc., US; R.C. WILLIS et al.: "Partial phenotypic correction of human lesch-nyhan (hypoxanthine-guanine phosphoribosyltransferase-deficient) lymphoblasts with a transmissible retroviral vector"
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• [A] BIOTECHNOLOGY, vol. 3, no. 3, August 1985, pages 689-693, New York, US; D. McCORMICK: "Human gene therapy: The first round"
• [XP] MOL. BIOL. MED., vol. 4, 1987, pages 157-168, Academic Press, Inc., London, GB; S.B. HOWELL et al.: "Gene therapy for thioguanine-resistant human leukemia"
• See references of WO 8809383A1

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