

Title (en)  
DRUG-CARRIER COMPLEXES AND METHODS OF USE THEREOF

Title (de)  
ARZNEIMITTELTRÄGER KOMPLEXE UND IHRE VERFAHREN UND ANWENDUNG

Title (fr)  
COMPLEXES VECTEURS DE MEDICAMENT ET TECHNIQUE D'UTILISATION DE CEUX-CI

Publication  
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Application  
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Abstract (en)  
[origin: WO0110468A2] Drug-carrier complexes, drug carriers, pharmaceutical formulations, methods of delivery drugs to an organism or tissue culture, methods of increasing the solubility of a substance, targeted carriers, drug delivery systems and implants are described. The compositions and methods of the invention include forming complexes having reversible associations between nucleotides and drugs. The compositions and methods of the invention can be employed to target drugs to cells, organisms or combinations of cells to treat and to study the underlying mechanisms of diseases, and to test drug candidates.

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Citation (search report)  
See references of WO 0110468A2

Citation (examination)  
• GB 1440626 A 19760623 - FARMACEUTICI ITALIA  
• HUFF; KREUZER: "Evidence for a common mechanism of action for antitumor and antibacterial agents that inhibit type II DNA topoisomerases", THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 256, 1990, pages 20496 - 20505  
• PULLMAN: "Sequence specificity in the binding of anti-tumour anthracyclines to DNA: a success of theory", ANTI-CANCER DRUG DESIGN, vol. 7, 1991, pages 95 - 105  
• YANG; WANG: "Structural studies of atom-specific anticancer drugs acting on DNA", PHARMACOLOGY AND THERAPEUTICS, vol. 83, 1999, pages 181 - 215  
• ZIEGLER ET AL: "induction of apoptosis in small-cell lung cancer cells by an antisense oligodeoxynucleotide targeting the Bcl-2 coding sequence", JOURNAL OF THE NATIONAL CANCER INSTITUTE, vol. 89, 1997, pages 1027 - 1036, XP002080869, DOI: doi:10.1093/jnci/89.14.1027  
• LIPSCOMB ET AL: "Water ring structure at DNA interfaces: hydration and dynamics of DNA-anthracycline complexes", BIOCHEMISTRY, vol. 33, 1994, pages 3649 - 3659  
• HERSCHLAG ET AL: "An RNA chaperone activity of non-specific RNA binding proteins in hammerhead ribozyme catalysis", THE EMBO JOURNAL, vol. 13, 1994, pages 2913 - 2924, XP000567895

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