

Title (en)  
DELIVERY OF PHOSPHOINOSITIDE POLYPHOSPHATES INTO CELLS

Title (de)  
ZUFÜHRUNG VON PHOSPHOINOSTIDIDPOLYPHOSPHATEN INS ZELLINNERE

Title (fr)  
ADMINISTRATION DE POLYPHOSPHATES PHOSPHOINOSITIDES DANS LES CELLULES

Publication  
**EP 1119315 A4 20020417 (EN)**

Application  
**EP 99952984 A 19990929**

Priority  
• US 9922594 W 19990929  
• US 10248298 P 19980930  
• US 39629699 A 19990915

Abstract (en)  
[origin: WO0018949A2] A method for facilitating delivery of a phosphatidylinositol polyphosphate or derivative thereof into a eukaryotic cell is disclosed. The method includes forming a complex of the phosphatidylinositol polyphosphate or derivative with a polyamine, and then contacting the cell with the complex. Preferred polyamines include aminoglycosides, dendrimeric polyamines, and histones. Compositions of matter for use in the method are also described. A method for screening compounds for minimum toxicity to eukaryotic cells and maximum toxicity to bacterial cells is also disclosed. Also disclosed is a method for monitoring calcium flux in a cell.

IPC 1-7  
**A61K 31/70**; **G01N 33/50**

IPC 8 full level  
**A61K 47/48** (2006.01); **A61K 49/00** (2006.01); **G01N 33/50** (2006.01)

CPC (source: EP)  
**A61K 47/543** (2017.07); **A61K 47/64** (2017.07); **A61K 49/0004** (2013.01); **G01N 33/5008** (2013.01); **G01N 33/5014** (2013.01); **G01N 33/502** (2013.01); **G01N 33/5035** (2013.01); **G01N 33/5076** (2013.01)

Citation (search report)  
• [X] US 4897384 A 19900130 - JANOFF ANDREW S [US], et al  
• [X] GABEV E ET AL: "BINDING OF NEOMYCIN TO PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE (PIP<sub>2</sub>)", BIOCHIMICA ET BIOPHYSICA ACTA. BIOMEMBRANES, AMSTERDAM, NL, vol. 979, 1989, pages 105 - 112, XP001022649, ISSN: 0005-2736  
• See references of WO 0018949A2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0018949 A2 20000406**; **WO 0018949 A3 20000720**; **WO 0018949 A9 20000831**; AU 6502699 A 20000417; CA 2345532 A1 20000406; EP 1119315 A2 20010801; EP 1119315 A4 20020417

DOCDB simple family (application)  
**US 9922594 W 19990929**; AU 6502699 A 19990929; CA 2345532 A 19990929; EP 99952984 A 19990929