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(54) Title: COMPOSITIONS AND METHODS FOR ACCOMPLISHING NUCLEOTIDE DEPLETION

(57) Abstract: Methods and compositions are provided that achieve depletion of a nucleotide pool by means of a phosphate-transferring enzyme such as a nucleoside phosphate or a polyphosphate glucokinase. Depletion of a nucleotide pool using a nucleoside kinase may additionally utilize a phosphotransferase in a second phosphate-transferring reaction.



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# INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. C12N9/12

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)  
C12N

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 practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, MEDLINE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HsIEH P C ET AL: "Kinetic mechanisms of polyphosphate glucokinase from Mycobacterium tuberculosis." BIOCHEMISTRY. 30 JUL 1996, vol. 35, no. 30, 30 July 1996 (1996-07-30), pages 9772-9781, XP002377963 ISSN: 0006-2960 abstract page 9773, column 2, paragraph 2	9-11,16, 17,20,21
X	US 2001/051362 A1 (MOFFETT ROBERT B ET AL) 13 December 2001 (2001-12-13) claims 1-21,23,26 paragraph [0019]	1,7,8, 16,21

Further documents are listed in the continuation of Box C.

See patent family annex.

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## INTERNATIONAL SEARCH REPORT

In application No  
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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.
X	ZEEBERG B ET AL: "An isoenergetic exchange mechanism which accounts for tubulin-GDP stabilization of microtubules." THE JOURNAL OF BIOLOGICAL CHEMISTRY. 10 DEC 1981, vol. 256, no. 23, 10 December 1981 (1981-12-10), pages 12051-12057, XP002377964 ISSN: 0021-9258 abstract page 12051, column 2, paragraphs 3,5 page 12051, column 2, last paragraph - page 12052, column 1, paragraph 1	1-6, 8-14, 16-18, 20,21
X	DIGNAM J D ET AL: "ACCURATE TRANSCRIPTION INITIATION BY RNA POLYMERASE II IN A SOLUBLE EXTRACT FROM ISOLATED MAMMALIAN NUCLEI" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 11, no. 5, 1983, pages 1475-1489, XP009005275 ISSN: 0305-1048 page 1477, paragraph 3	9-21
X	LAMBETH D O ET AL: "The direct assay of kinases and acyl-CoA synthetases by HPLC: application to nucleoside diphosphate kinase and succinyl-CoA synthetase." ANALYTICAL BIOCHEMISTRY. 15 FEB 1993, vol. 209, no. 1, 15 February 1993 (1993-02-15), pages 192-198, XP002377965 ISSN: 0003-2697 abstract page 193, column 2, paragraph 5	9-13, 15-21
X	HUBER JOCHEN ET AL: "The importin-beta binding domain of snurportin1 is responsible for the Ran- and energy-independent nuclear import of spliceosomal U snRNPs in vitro" JOURNAL OF CELL BIOLOGY, vol. 156, no. 3, 4 February 2002 (2002-02-04), pages 467-479, XP002377966 ISSN: 0021-9525 abstract; figure 4 page 478, column 1, last paragraph - column 2, paragraph 1	1,6,8, 16,17,21

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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