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(71) Applicant (for all designated States except US): **THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES** [US/US]; 6011 Executive Boulevard, Suite 325, Rockville, MD 20852 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHEARER, Gene, M.** [US/US]; 5512 Glenwood Road, Bethesda, MD 20817 (US). **RUGELES, Maria, T.** [CO/CO]; Medellin (CO). **RYBACK, Susanna, M.** [US/US]; 7411B Round Hill Road, Frederick, MD 21202 (US). **OPPENHEIM, Joost, J.** [US/US]; 7601 Winterberry Place, Bethesda, Md Maryland 20817 (US).

(74) Agents: **PATTON, Stephana, E.** et al.; Edwards & Angell, LLP, 101 Federal Street, P.O. Box 55874, Boston, MA 02205-5874 (US).

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(54) Title: ANGIOGENIN-BASED HIV-1 THERAPIES

(57) Abstract: Methods for treatment of highly mutating viruses and viruses which establish chronic or latent infections in an individual are provided. In particular, it is shown that angiogenin is a potent inhibitor of viral replication, such as HIV-1. This has several advantages over other known ribonucleases that are used to inhibit HIV-1 replication as angiogenin inhibits HIV-1 replication in primary activated T lymphocyte cultures as well as chronically infected cell lines. Inhibition of HIV-1 replication in primary activated T lymphocytes would decrease the risk of HIV spreading to other susceptible cells.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15781

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) : C12Q 1/70; A61K 38/43; G01N 00/00
US CL : 435/5; 424/94.1; 422/61

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)

U.S. : 435/5; 424/94.1; 422/61

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 practicable, search terms used)
USPATFUL, WPIDS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	NG, T. B., et al. Inhibition of human immunodeficiency virus type 1 reverse transcriptase, protease, and integrase by bovine milk proteins. Life Sciences. 28 September 2001, Vol. 69. No. 19, pages 2217-23, see entire document.	1-29
Y	WANG, H., et al. First demonstration of an inhibitory activity of milk proteins against human immunodeficiency virus-1 reverse transcriptase and the effect of succinylation. Life Sciences. 20 October 2000, Vol. 67. No. 22, pages 2745-2752, see entire document.	1-29
Y	US 4,900,673 (HARPER, J. W., et al.) 13 February 1990 (13.02.1990), see entire document.	1-29
Y	US 5,171,845 (SPIK, G., et al.) 15 December 1992 (15.12.1992), see entire document.	1-29

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

J S Parkin

Telephone No. (571) 272-0500