

07/10/01
10961 U.S. PTO

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PROVISIONAL APPLICATION COVER SHEET

request for filing a PROVISIONAL APPLICATION under 37 CFR 1.53 (b)(2).

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07/10/01
10961 U.S. PTO

INVENTOR(S)/APPLICANT(S)			
LAST NAME	FIRST NAME	MIDDLE INITIAL	RESIDENCE (CITY AND EITHER STATE OR FOREIGN COUNTRY)
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TITLE OF THE INVENTION (250 characters max)			
RIBOZYMES TARGETING THE RETROVIRAL PACKAGING SEQUENCE EXPRESSION CONSTRUCTS AND RECOMBINANT RETROVIRUSES CONTAINING SUCH CONSTRUCTS			
CORRESPONDENCE ADDRESS			
John P. White, Esq. Cooper & Dunham LLP 1185 Avenue of the Americas			
STATE	NY	ZIP CODE	10036 COUNTRY U.S.A.
ENCLOSED APPLICATION PARTS (check all that apply)			
<input checked="" type="checkbox"/> Specification	Number of Pages	95	<input type="checkbox"/> Small Entity Statement
<input checked="" type="checkbox"/> Drawing(s)	Number of Sheets	26	<input checked="" type="checkbox"/> Other (specify) Express Mail Certificate of Mailing bearing label No. EL278886345US
METHOD OF PAYMENT (check one)			
<input checked="" type="checkbox"/>	A check or money order is enclosed to cover the Provisional filing fees		PROVISIONAL FILING FEE AMOUNT (\$) \$150.00
<input checked="" type="checkbox"/>	The Commissioner is hereby authorized to charge filing fees and credit Deposit Account Number: 03-3125		

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.
 Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,
SIGNATURE Gary J. Gershik
TYPED or PRINTED NAME Gary J. Gershik

Date 07 / 10 / 01
REGISTRATION NO. 28,678
(if appropriate)

Additional inventors are being named on separately numbered sheets attached hereto

PROVISIONAL APPLICATION FILING ONLY

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CSHL EXHIBIT 2009
BENITEC V. CSHL
IPR2016-00016

CONTINUATION OF INVENTORS

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FOOTCO 2540E

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Geoffrey P. Symonds et al.
Serial No. : Not Yet Known
Filed : Herewith
For : RIBOZYMES TARGETING THE RETROVIRAL PACKAGING SEQUENCE EXPRESSION CONSTRUCTS AND RECOMBINANT RETROVIRUSES CONTAINING SUCH CONSTRUCTS

1185 Avenue of the Americas
New York, New York 10036
July 10, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231

Box: Provisional Application

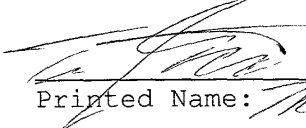
SIR:

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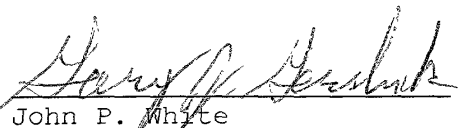
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65482-071001



Printed Name: John P. White

Respectfully submitted,



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*Application
for
United States Letters Patent*

FOOTNOTED

To all whom it may concern:

Be it known that, we,
Geoffrey Symonds, et al.

have invented certain new and useful improvements in
RIBOZYMES TARGETING THE RETROVIRAL PACKAGING SEQUENCE EXPRESSION CONSTRUCTS
AND RECOMBINANT RETROVIRUSES CONTAINING SUCH CONSTRUCTS

of which the following is a full, clear and exact description.

RIBOZYMES TARGETING THE RETROVIRAL PACKAGING SEQUENCE
EXPRESSION CONSTRUCTS AND RECOMBINANT RETROVIRUSES
CONTAINING SUCH CONSTRUCTS

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BACKGROUND OF THE INVENTION:
RETROVIRUSES

20 Retroviruses are viruses with RNA as their genomic material.
They use host cells for their replication by stably
integrating a cDNA copy of their genomic RNA into the host
cell genome (Miller, 1992, and Brown, 1987). The viral
genome consists of a Long Terminal Repeat (LTR) at each end
(5' and 3') of the proviral cDNA form of the virus.
25 Proceeding from 5' to 3', the LTR consists of U3 and U5
sequences linked by a short sequence termed R.
Transcription commences within the 5' LTR and terminates at
a polyadenylation site within the 3' LTR. Adjacent to the
LTRs are short sequences necessary for priming of positive
30 and negative strand DNA synthesis by reverse transcriptase.
Splice donor and acceptor sequences are also present within
the genome and these are involved in the production of
sub-genomic RNA species. Directly proximal to the 5' LTR is
a sequence necessary for the encapsidation of viral RNA into
35 virions. This is termed the Psi packaging sequence. It is
an essential and specific signal ensuring that the viral RNA

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