06-06-02

PROVISIONAL APPLICATION COVER SHEET

A/PROV

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

Docket Number	65482-PRO3/JPW/GJG	Type a plus sign (+) inside this box →	+

INVENTOR(s)/APPLICANT(s)

LAST NAME	FIRST NAME	MIDDLE INITIAL	RESIDENCE (CITY AND EITHER STATE OR FOREIGN COUNTRY)
Symonds	Geoffrey		15 Hamilton Street, Ross Bay, NSW 2029 Australia
Lun-Quan	Sun		74 Fawcett Street, Ryde NSW,2112, Australia

TITLE OF THE INVENTION (280 characters max)

METHOD FOR GENETIC MODIFICATION OF HEMATOPOETIC PROGENTOR ("HP") CELLS AND USES OF THE MODIFIED CELLS

1050 U.S. PTO 60/386063 06/04/02

CORRESPONDENCE ADDRESS

John P. White, Esq.
Cooper & Dunham LLP
1185 Avenue of the Americas
New York, New York 10036

STATE	NY	ZIP CODE	10036	COUNTRY	United States of America

ENCLOSED APPLICATION PARTS (check all that apply)

X	Specification	Number of Pages	98		Small Entity Statement
X	Drawing(s)	Number of Sheets	20	X	Other (specify) Express Mail Certificate of Mailing bearing Label No. EL 525 964 565US, dated June 4, 2002

METHOD OF PAYMENT (check one)

X	A check or money order is enclosed to cover the Provisional filing fees	PROVISIONAL FILING FEE AMOUNT ($)	$160.00
X	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.

[X] No.

[ ] Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,

SIGNATURE Gary J. Gershik Date 06/04/02

TYPED or PRINTED NAME Gary J. Gershik REGISTRATION NO. (if appropriate) 39,992

[X] Additional inventors are being named on separately numbered sheets attached hereto

PROVISIONAL APPLICATION FILING ONLY

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INVENTOR(S)/APPLICANT(S)

LAST NAME	FIRST NAME	RESIDENCE (CITY AND EITHER STATE OR FOREIGN COUNTRY)
Amado	Rafael	16050 Woodley Park Lane Encino, CA 91436
Fanning	Greg	5/22 Read Street Bronte, New South Wales 2024 Australia
Macpherson	Janet	13 Day Street Leichardt, New South Wales 2040 Australia

Docket No. 65482-PRO3/JPW/GJG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Geoffrey P. Symonds et al.

Serial No.: Not Yet Known

Filed : Herewith

For : METHOD FOR GENETIC MODIFICATION OF HEMATOPOETIC PROGENTOR ("HP") CELLS AND USES OF THE MODIFIED CELLS

1185 Avenue of the Americas
New York, New York 10036
June 4, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

Box: Provisional Application

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Respectfully submitted,

John P. White
Registration No. 28,678
Gary J. Gershik
Registration No. 39,992
Attorney for Applicant
Cooper & Dunham LLP
1185 Avenue of the Americas
New York, New York 10036
Tel (212) 278-0400

Docket No. 65482-PRO3/JPW/GJG

Application
for
United States Letters Patent

To all whom it may concern:

Be it known that, we,

Geoffrey Symonds, Sun Lun-Quan, Rafael Amado, Greg Fanning and Janet Macpherson

have invented certain new and useful improvements in

METHOD FOR GENETIC MODIFICATION OF HEMATOPOETIC PROGENTOR ("HP") CELLS AND USES OF THE MODIFIED CELLS

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

METHODS FOR GENETIC MODIFICATION OF HEMATOPOETIC PROGENITOR ("HP") CELLS AND USES OF THE MODIFIED CELLS

Throughout this application various publications are referenced in parenthesis. Full citations for these publications may be found listed alphabetically at the end of the specification immediately preceding the claims. The disclosures of these publications in their entireties are hereby incorporated by reference into this application in order to more fully describe the state of the art to which this invention pertains.

FIELD OF THE INVENTION

The present invention relates to gene therapy, particularly as applied to hematopoietic progenitor (HP) cells, to transduced cells and methods of obtaining them, and to methods of using them.

BACKGROUND OF THE INVENTION

Gene therapy refers to the use of genetic sequences and their introduction into cells to alter the genetic makeup of the cells and thereby change the properties or functioning of those cells. Gene therapy may be used, for example, to correct a genetic defect by providing to the cells a good copy of a gene that functions as desired, or to provide a gene that encodes an RNA or protein that inhibits an undesired cellular or pathogen activity.

Gene therapy may be aimed at any of a variety of diseases in which there is a genetic aspect. Of particular interest are diseases of the blood or immune systems since the hematopoietic cells are relatively easy to collect from a subject, allowing for ex vivo procedures to be used. These include hemoglobinopathies, defects of leukocyte production or function, immune deficiencies, lysosomal storage diseases

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