

09-14-2005

Form PTO-1595

RECOF

(Rev. 6/93)

OMB No. 0651-0011 (exp. 4/94)



103002998

U.S. DEPARTMENT OF COMMERCE

Patent And Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Drew M. Pardoll 4/30/04
 2) Linzhao Cheng 4/30/04
 3) Yan Cui 5/16/04
 4) Curt I. Civin 4/30/04
 5) Katherine Whartenby 4/30/04

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☒ Other **Corrective assignment to re-record assignment previously recorded under Reel and Frame 014902/0537 to correct the Assignee Name from The John Hopkins University to The Johns Hopkins University.**

Execution Date: 1) 2) 4) and 5) 4/30/04; 3) 5/16/04

2. Name and address of receiving party(ies):

Name: The Johns Hopkins University

Internal Address: _____

Street Address: 3400 N. Charles StreetCity: Baltimore State: MD Zip: 21218Additional name(s) & addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the filing date of the application is: _____

A. Patent Application No.(s) 10/471,559

B. Patent No.(s): _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gillian M. FentonInternal Address: Foley Hoag LLPPatent DepartmentStreet Address: 155 Seaport Blvd.City: Boston State: MA ZIP 02210

6. Total number of applications and patents involved (1)

7. Total Fee (37 CFR 3.14).....\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

06-1448, Ref.

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gillian M. Fenton Reg. No. 36,508

Name of Person Signing and Reg. No.

Signature

June 21, 2005

Date

Total number of pages including cover sheet, attachments, and document: (7)


Mail documents to be recorded with required cover sheet information to:

Mail Stop: Assignment Recordation Services
 Director of the U.S. Patent and Trademark Office
 P.O. Box 1450, Alexandria VA 22313-1450

B1138629.1

PATENT
 REEL: 016549 FRAME: 0863

700101884

Form PTO-1595 (Rev. 6/92) OMB No. 0651-0011 (exp. 4/94)		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Drew M. Pardoll 4/30/04 Linzhao Cheng 4/30/04 Yan Cui 6/16/04 Curt I. Civil 4/30/04 Katherine Whartenby 4/30/04 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies): Name: <u>The John Hopkins University</u> Internal Address: _____ _____ _____ Street Address: <u>3400 N. Charles Street</u> _____ _____ City: <u>Baltimore</u> State: <u>MD</u> Zip: <u>21218</u> Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: _____			4. Application number(s) or patent number(s): If this document is being filed together with a new application, the filing date of the application is: _____ A. Patent Application No. (s) <u>10/471,559</u> B. Patent No. (s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Gillian M. Fenton</u> Internal Address: <u>Foley Hoag LLP</u> <u>Patent Department</u> _____ Street Address: <u>155 Seaport Blvd.</u> _____ City: <u>Boston</u> State: <u>MA</u> ZIP <u>02210</u>			6. Total number of applications and patents involved (1) 7. Total Fee (37 CFR 3.14)..... <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>06-1448, Ref.</u> (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between;"> <div> Gillian M. Fenton Reg. No. 36,308 Name of Person Signing and Reg. No. </div> <div style="text-align: center;">  Signature </div> <div> July 20, 2004 Date </div> </div>					
Total number of pages including cover sheet, attachments, and documents: (4)					

Mail documents to be recorded with required cover sheet information to:
 Mail Stop: Assignment Recordation Services
 Director of the U.S. Patent and Trademark Office
 P.O. Box 1450, Alexandria VA 22313-1450

-DC/90392.1

700101884

PATENT
REEL: 014902 FRAME: 0537

PATENT
REEL: 016549 FRAME: 0864

ASSIGNMENT

WHEREAS, we, Drew M. Pardoll, Linzhao Cheng, Yan Cui, Curt I. Civin and Katherine Whartenby, and have developed certain inventions described in a US patent application serial number 10/471,559 entitled MODULATION OF SYSTEMIC IMMUNE RESPONSES BY TRANSPLANTATION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH GENES ENCODING ANTIGENS AND ANTIGEN PRESENTING CELL REGULATORY MOLECULES, filed on September 12, 2003, having full right to convey our entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

WHEREAS, THE JOHNS HOPKINS UNIVERSITY, ("Assignee"), of 3400 N. Charles Street, Baltimore, MD, 21218, a corporation of the State of Maryland, is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the undersigned, the undersigned do hereby sell, assign, transfer and set over unto said Assignee, its successors and assigns, their entire right, title and interest throughout the world in and to said invention or inventions, as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application; and in and to any application filed in any foreign country based thereon, including the right to file said foreign applications and claim priority under the provisions of any international convention or treaty; also the entire right, title and interest throughout the world in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the undersigned hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

The undersigned further agree, without any further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

-DC/86450.1

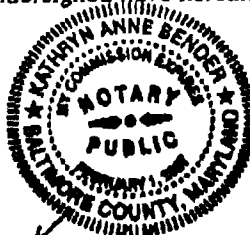
PATENT
REEL: 014902 FRAME: 0538

PATENT
REEL: 016549 FRAME: 0865

IN TESTIMONY WHEREOF, the undersigned have hereunto set their hands and seals
on the date after their signatures.

Drew M. Pardoll
Drew M. Pardoll

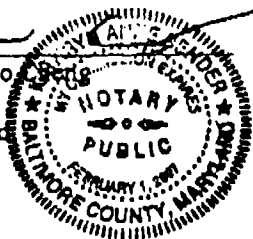
State of Maryland)
County of BALTIMORE)



4/3/04
(Date)

Kathryn Anne Bender
Notary Public
My commission expires 2/1/07

Linzhao Peng
Linzhao Peng
State of Maryland)
County of)



4-30-2004
(Date)

Kathryn Anne Bender
Notary Public
My commission expires for life

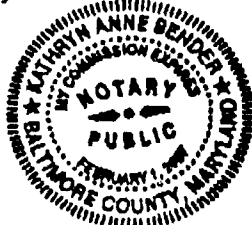
Yan Cui
Yan Cui
State of ~~Maryland~~ Louisiana)
County of ~~Baltimore~~ Orleans Parish)

4-15-04
(Date)


1
Notary Public
My commission expires _____

Curt I. Civin
Curt I. Civin

State of Maryland)
County of BALTIMORE)



Kathryn Anne Bender
Notary Public
My commission expires 2/1/07


Katherine Whartenby4/30/04
(Date)State of Maryland)
County of Baltimore)Kathryn Anne Bender
Notary Public
My commission expires 2/1/07

ASSIGNMENT

WHEREAS, we, Drew M. Pardoll, Linzhao Cheng, Yan Cui, Curt I. Civin and Katherine Whartenby, and have developed certain inventions described in a US patent application serial number 10/471,559 entitled MODULATION OF SYSTEMIC IMMUNE RESPONSES BY TRANSPLANTATION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH GENES ENCODING ANTIGENS AND ANTIGEN PRESENTING CELL REGULATORY MOLECULES, filed on September 12, 2003, having full right to convey our entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

WHEREAS, THE JOHNS HOPKINS UNIVERSITY, ("Assignee"), of 3400 N. Charles Street, Baltimore, MD, 21218, a corporation of the State of Maryland, is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the undersigned, the undersigned do hereby sell, assign, transfer and set over unto said Assignee, its successors and assigns, their entire right, title and interest throughout the world in and to said invention or inventions, as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application; and in and to any application filed in any foreign country based thereon, including the right to file said foreign applications and claim priority under the provisions of any international convention or treaty; also the entire right, title and interest throughout the world in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the undersigned hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

The undersigned further agree, without any further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

-DC/86450.1

PATENT
REEL: 014902 FRAME: 0541

PATENT
REEL: 016549 FRAME: 0868

IN TESTIMONY WHEREOF, the undersigned have hereunto set their hands and seals
on the date after their signatures.

Drew M. Pardoll

(Date)

State of Maryland)
County of)

Notary Public

My commission expires _____

Linzhao Cheng

(Date)

State of Maryland)
County of)

Notary Public

My commission expires _____



Yan Cui

(Date)

State of ~~Maryland~~ *Louisiana*)
County of *Orleans*)
Parish *Orleans*)



Notary Public

My commission expires *for life*

06/16/04

(Date)

Curt I. Civin

State of Maryland)
County of)

Notary Public

My commission expires _____