#### 504159444 12/30/2016

# PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4206119

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CARLOS LOIS-CABALLE	05/20/2009
DAVID BALTIMORE	07/30/2007
XIAO-FENG QIN	04/15/2010

### **RECEIVING PARTY DATA**

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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15395348

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ATTORNEY DOCKET NUMBER:	CALTE.011P2C5
NAME OF SUBMITTER:	JING LIU
SIGNATURE:	/Jing Liu/
DATE SIGNED:	12/30/2016

## **Total Attachments: 4**

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**PATENT REEL: 040810 FRAME: 0670** 504159444

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PATENT REEL: 040810 FRAME: 0671 Application No.: 11/683,962 Client Code: CALTE.011CP2 Filing Date: March 8, 2007 Page 1

#### ASSIGNMENT

WHEREAS, We, Carlos Lois-Caballe, a Spanish citizen, residing at 77 Mass. Ave., 46-5251, Cambridge, MA 02139, David Baltimore, a U.S. Citizen, residing at 1255 S. Grand Ave., Pasadena, CA 91105, Xiao-Feng Qin, a U.S. Citizen, residing at 3335 Summer Bay Drive, Sugar Land, TX 77478, have invented certain new and useful improvements in a METHOD FOR EXPRESSION OF SMALL ANTIVIRAL RNA MOLECULES WITH REDUCED CYTOTOXICITY for which we have filed an application for Letters Patent in the United States, Application No. 11/683,962, Filed on March 8, 2007;

AND WHEREAS, California Institute of Technology (hereinafter "ASSIGNEE"), a Corporation, with its principal place of business at 1200 East California Blvd., Mail Code 201-85, Pasadena, CA 91125, desires to acquire the entire right, title, and interest in and to said improvements and said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under said improvements, and said application including all provisional applications relating thereto and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, his successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND WE HEREBY covenant and agree that we will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

PATENT REEL: 040810 FRAME: 0672

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Client Code: CALTX.011CP2

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Carlos Lois-Caballe

STATE OF Massachusetts ss.

On <u>20 May 2009</u>, before me, <u>Judith Cauchy arger</u>, notary public, personally appeared Carlos Lois-Caballe personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(jes); and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

Molary Signature

JUDITH RAUCHWARGER
NOTATIVE PLOTIC
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires
July 25, 2014

PATENT

Application No.: 11/683,962 Client Code: CALTX.011CP2 Filing Date: March 8, 2007

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 30 day of

Notary Signature

STATE OF

SS.

COUNTY OF

, before me, personally appeared David Baltimore personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(e) whose name(e) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in he authorized capacity(iee). and that by he signature(\*) on the instrument the person(\*), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

**PATENT** 

REEL: 040810 FRAME: 0674

PATENT

Application No.: 11/683,962 Filing Date: March 8, 2007

Client Code: CALTE.011CP2

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TESTIMONY WHEREOF, I hereunto set my hand and seal this  $I^{E_{\gamma}}$ 

Xiao-Feng Qin

STATE OF TEXAS.

COUNTY OF FEET BOND | ss.

On 1574 ATRIL 2010, before me, FRANK XMOTENG GW, notary public, personally appeared Xiao-Feng Qin personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

Notary Signature

JANET HSIAO FENG TAI Notary Public, State of Texas My Commission Expires May 01, 2013

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> **PATENT REEL: 040810 FRAME: 0675**

**RECORDED: 12/30/2016**