502022652 08/13/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Erin M. Duffy	09/09/2011
Ashoke Bhattacharjee	08/22/2011
Hardwin O'Dowd	08/23/2011
Marco DeVivo	08/24/2011
Yanming Du	09/01/2011
Sandra Sinishtaj	08/22/2011
Yuanqing Tang	08/29/2011
Brian T. Wimberly	08/31/2011

RECEIVING PARTY DATA

Name:	Rib-X Pharmaceuticals, Inc.
Street Address:	300 George Street
Internal Address:	Suite 301
City:	New Haven
State/Country:	CONNECTICUT
Postal Code:	06511

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13501834

CORRESPONDENCE DATA

 Fax Number:
 6175422241

 Phone:
 (617) 542-6000

 Email:
 jfoley@mintz.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

502022652

Correspondent Name: Ivor R. Elrifi

Address Line 1: One Financial Center Address Line 2: Mintz, Levin P.C.

PATENT
REEL: 028774 FRAME: 0504

OP \$40,00 13501834

Address Line 4: Boston, MASSACHUSETTS 02111	
ATTORNEY DOCKET NUMBER:	26505-571N01US
NAME OF SUBMITTER:	Jennifer L. Loebach
Total Attachments: 18	
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PATENT REEL: 028774 FRAME: 0505

ASSIGNMENT

We, Erin M. DUFFY, Ashoke BHATTACHARJEE, Hardwin O'DOWD, Marco DEVIVO, Yanming DU, Sandra SINISHTAJ, Yuanqing TANG and Brian T. WIMBERLY, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to RIB-X PHARMACEUTICALS, INC., 300 George Street, Suite 301, New Haven, Connecticut 06511, United States of America, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for Letters Patent entitled:

ANTIMICROBIAL COMPOUNDS AND METHODS OF MAKING AND USING THE SAME

filed with the U.S. Receiving Office of the U.S. Patent and Trademark Office on October 15, 2010 and assigned International Application Serial No. PCT/US2010/052928, including any subsequently filed utility applications, which claim priority to U.S. Application Serial No(s). 61/252,478 filed October 16, 2009; 61/314,287 filed March 16, 2010; and, 61/358,201 filed June 24, 2010 and including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications. We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

PATENT REEL: 028774 FRAME: 0506

Page 2 of 6

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date:	9/9/2011		
		Signature of: Erin M. DUFFY	_

Notary/Public

My commission expires

-2-

Application No. : PCT/US2010/052928 Filed : 15 October 2010 Page 3 of 6	
Date: 8 22 2011	As ho he Bhattarhon en Signature of: Ashoke BHATTACHARJEE
	Signature of: Asnoke BHATTACHARJEE
personally appeared Ashoke BHATTACH of identification, which was a <u>CT Dewer</u>	2011, before me, the undersigned notary public, ARJEE, proved to me through satisfactory evidence SLICENSE, to be the person whose name is signed d to me that the contents of this document are truthful the and belief.
	Maure V. Muhle Notary Public
	My commission expires 3 31 2012
Date:	Signature of: Hardwin O'DOWD
personally appeared Hardwin O'DOWD, p	2011, before me, the undersigned notary public, roved to me through satisfactory evidence of, to be the person whose name is signed to me that the contents of this document are truthful e and belief.

Notary Public

Application No. : PCT/US2010/052928 Filed : 15 October 2010 Page 4 of 6	
Date: 29/08/11	Signature of: Marco DEVIVO
personally appeared Marco DEVIVO, providentification, which was a <u>Cf Drivers</u>	d to me that the contents of this document are truthful ge and belief.
	Mary Public Much
	My commission expires 3/31/2017
Date:	Signature of: Yanming DU
On this day of, personally appeared Yanming DU, proved which was a, to document and who swore or affirmed to me accurate to the best of his/her knowledge ar	, 2011, before me, the undersigned notary public, to me through satisfactory evidence of identification, be the person whose name is signed on this e that the contents of this document are truthful and and belief.
	Notary Public

Page 5 of 6	: 15 October 2010		
Date:	08-27-2011	SSIINS (Per Signature of: Sandra SINISHTAJ	
personally identification this doc	appeared Sandra SINISHTAJ on, which was a <u>NYS Dewe</u>	, 2011, before me, the undersigned notary put, proved to me through satisfactory evidence of the person whose name is led to me that the contents of this document arilge and belief.	of signed
		Mann V. Markle Notary Public	<u> </u>
		My commission expires 3/31/2012	William Comment
			CAL ST. CO. CO. L. P. L. CO.
Date:	3/29/11	Signature of: Yuanqing TANG	
On this <u>2</u> personally a	9 day of <u>Augu ST</u>	, 2011, before me, the undersigned notary pub oved to me through satisfactory evidence of	olic,

Application No. : PCT/US2010/052928

identification, which was a <u>CT Dienvers Ciccose</u>, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

My commission expires $\frac{3}{3}/2012$



-5-

Application No. : PCT/US2010/052928
Filed : 15 October 2010
Page 6 of 6

ate: 08/31/2011 Brian T. WIMBERLY
Signature of: Brian T. WIMBERLY

On this 31 day of August, 2011, before me, the undersigned notary public, personally appeared Brian T. WIMBERLY, proved to me through satisfactory evidence of identification, which was a CT Devers Lectors, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

Notary/Public

My commission expires



5379438v.1

ASSIGNMENT

We, Erin M. DUFFY, Ashoke BHATTACHARJEE, Hardwin O'DOWD, Marco DEVIVO, Yanming DU, Sandra SINISHTAJ, Yuanqing TANG and Brian T. WIMBERLY, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to RIB-X PHARMACEUTICALS, INC., 300 George Street, Suite 301, New Haven, Connecticut 06511, United States of America, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for Letters Patent entitled:

ANTIMICROBIAL COMPOUNDS AND METHODS OF MAKING AND USING THE SAME

filed with the U.S. Receiving Office of the U.S. Patent and Trademark Office on October 15, 2010 and assigned International Application Serial No. PCT/US2010/052928, including any subsequently filed utility applications, which claim priority to U.S. Application Serial No(s). 61/252,478 filed October 16, 2009; 61/314,287 filed March 16, 2010; and, 61/358,201 filed June 24, 2010 and including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications. We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

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PATENT REEL: 028774 FRAME: 0512

Page 2 of 6

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date:		
		Signature of: Erin M. DUFFY
On this	day of	, 2011, before me, the undersigned notary public, FY, proved to me through satisfactory evidence of
identificatio	on, which was a	to be the person whose name is signed raffirmed to me that the contents of this document are truthful
	e to the best of his/her k	
		Notary Public
		My commission expires

Application No. Filed Page 3 of 6	: PCT/US2010/052928 : 15 October 2010

Signature of: Ashoke BHATTACHARJEE
, 2011, before me, the undersigned notary public, EHARJEE, proved to me through satisfactory evidence, to be the person whose name is signed need to me that the contents of this document are truthful edge and belief.
Notary Public
My commission expires
Signature of: Hardwin O'DOWD

KRISTEN KEENE
Notary Public
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires
April 8, 2016

	: PCT/US2010/052928 : 15 October 2010	•
Date:		Signature of: Marco DEVIVO
personally apperidentification, von this docume	eared Marco DEVIVO, pr	, 2011, before me, the undersigned notary public, roved to me through satisfactory evidence of, to be the person whose name is signed med to me that the contents of this document are truthful edge and belief.
		Notary Public
		My commission expires
		j
Data		
Date:		Signature of: Yanming DU
personally apper which was a document and v	eared Yanming DU, prove	, 2011, before me, the undersigned notary public, ed to me through satisfactory evidence of identification, to be the person whose name is signed on this me that the contents of this document are truthful and and belief.
		Notary Public

Application No. : PCT/US2010/052928 Filed : 15 October 2010 Page 5 of 6	
Date:	`
	Signature of: Sandra SINISHTAJ
personally appeared Sandra SINISHTA	, 2011, before me, the undersigned notary public, J, proved to me through satisfactory evidence of, to be the person whose name is signed med to me that the contents of this document are truthful edge and belief.
	Notary Public
	My commission expires
Date:	
	Signature of: Yuanqing TANG
On this day of personally appeared Yuanqing TANG, p identification, which was a on this document and who swore or affirm and accurate to the best of his/her knowledge.	, 2011, before me, the undersigned notary public, proved to me through satisfactory evidence of, to be the person whose name is signed med to me that the contents of this document are truthful edge and belief.
	Notary Public

	: PCT/US2010/052928 : 15 October 2010	
Date:		Signature of: Brian T. WIMBERLY
personally apperidentification, on this docume	eared Brian T. WIMBER which was a	, 2011, before me, the undersigned notary public, LY, proved to me through satisfactory evidence of, to be the person whose name is signed ned to me that the contents of this document are truthful dge and belief.
		Notary Public
		My commission expires

5379438v.1

ASSIGNMENT

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PATENT REEL: 028774 FRAME: 0518

Page 2 of 6

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We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date:	
	Signature of: Erin M. DUFFY
On this day of _	, 2011, before me, the undersigned notary public,
	n M. DUFFY, proved to me through satisfactory evidence of
identification, which wa	s a, to be the person whose name is signed
	ho swore or affirmed to me that the contents of this document are truthful of his/her knowledge and belief.
	Notary Public
	My commission expires

Application No. Filed	: PCT/US2010/052928 : 15 October 2010
Page 3 of 6	

Date:		
		Signature of: Ashoke BHATTACHARJEE
of identification on this docu	ation, which was a	, 2011, before me, the undersigned notary public, ATTACHARJEE, proved to me through satisfactory evidence, to be the person whose name is signed or affirmed to me that the contents of this document are truthful knowledge and belief.
		Notary Public
	·	My commission expires
Date		
Dato	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Signature of: Hardwin O'DOWD
personally a identification on this docu	ppeared Hardwin O' l n, which was a ment and who swore o	, 2011, before me, the undersigned notary public, DOWD , proved to me through satisfactory evidence of, to be the person whose name is signed or affirmed to me that the contents of this document are truthful knowledge and belief.
		Notary Public
		My commission expires

Page 4 of 6

Date:		
		Signature of: Marco DEVIVO
On this	day of	, 2011, before me, the undersigned notary public,
personally appe	ared Marco DEVIV	O, proved to me through satisfactory evidence of
identification, v	vhich was a	, to be the person whose name is signed
on this docume	nt and who swore or	affirmed to me that the contents of this document are truthful
and accurate to	the best of his/her kn	nowledge and belief.
		Notary Public
		My commission expires

Date: <u>Sept. 1, 2011</u>

Signature of: Yanming DU

On this <u>O2</u> day of <u>SEPTEMBER</u>, 2011, before me, the undersigned notary public, personally appeared **Yanming DU**, proved to me through satisfactory evidence of identification, which was a <u>CT DOVERS</u> License, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

NOTARIAL SEAL
MICHELE EHLINGER
Notary Public
BUCKINGHAM TWP, BUCKS COUNTY
My Commission Expires Oct 21, 2014

Notary Public

Application No. Filed Page 5 of 6	: PCT/US2010/052928 : 15 October 2010	
Date:		C' (C C - 1 - CYNYCYYCA I
		Signature of: Sandra SINISHTAJ
identification, on this docume	which was a	
		Notary Public
		My commission expires
Date:		Signature of: Yuanqing TANG
identification, on this docume	eared Yuanqing TANG, p	
		Notary Public

	: PCT/US2010/052928 : 15 October 2010	
Date:	Addition	Signature of: Brian T. WIMBERLY
personally appeidentification, on this docume	eared Brian T. WIMBERI which was a	_, 2011, before me, the undersigned notary public, LY, proved to me through satisfactory evidence of, to be the person whose name is signed led to me that the contents of this document are truthful lige and belief.
		Notary Public
		My commission expires

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