# 503867307 06/13/2016

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3913956

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ANASTASIA KHVOROVA	08/07/2012
WILLIAM SALOMON	08/07/2012
JOANNE KAMENS	08/06/2012
DMITRY SAMARSKY	09/04/2012
TOD M. WOOLF	07/31/2012
PAMELA A. PAVCO	08/30/2012
JAMES CARDIA	06/26/2013

### **RECEIVING PARTY DATA**

Name:	RXI PHARMACEUTICALS CORPORATION	
Street Address:	257 SIMARANO DRIVE	
Internal Address:	SUITE 101	
City:	MARLBOROUGH	
State/Country:	MASSACHUSETTS	
Postal Code:	01752	

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

Property Type	Number
Application Number:	15041738

#### **CORRESPONDENCE DATA**

Fax Number: (6	(617)646-8646			
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.				
Phone: 6	617.646.80000			
Email: p	atents_OonaJ@wolfgreenfield.com			
Correspondent Name: C	OONA M. JOHNSTONE			
Address Line 1: W	WOLF GREENFIELD			
Address Line 2: 6	600 ATLANTIC AVENUE			
Address Line 4: B	BOSTON, MASSACHUSETTS 02110			
ATTORNEY DOCKET NUMBER: R0659.70013US02				
NAME OF SUBMITTER: OONA M. JOHNSTONE				
SIGNATURE:	NATURE: /Oona M. Johnstone/			

DATE SIGNED:	06/13/2016
Total Attachments: 44	
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#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware 1. Corporation, having a place of business at 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,315, bearing Attorney Docket No. R0659.70013US00, and entitled RNA **INTERFERENCE IN SKIN INDICATIONS, and in and to the application and all corresponding** non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Page 1 of 7

8.7.2012 Date

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Inventor: Anastasia Khvorova Address: 10 Rocklawn Road Westborough, MA 01581

Citizenship: US

STATE/COMMONWEALTH OF		MARI	10-00						
COUNTY OF	Non	rethe	3				_		
On this	$\sim$	day of	Auga	,72 <i>1</i> ~	·······	before me, th	e undersigne	ed notary public,	
personally appe	eared	An	astasia Khvo	orova	_, pro	oved to me th	rough satisfa	ctory evidence of	of
identification, w	hich we	ere	We have the state	Ohours (	トロー	4			,
to be the perso	n who s	ianed the	precedina (	or attached	docur	ment in my pr	esence and s	swore or affirme	d

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires:



Attorney Docket No. R0659.70013US00 2304071.1

Page 2 of 7

Data
Date

Inventor: William Salomon Address: 210 Mountain Street East Apt. 278 Worcester, Massachusetts 01606 Citizenship: US

STATE/COMMONWEALTH OF \_\_\_\_\_\_:

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, \_\_\_\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_\_\_ William Salomon \_\_\_\_\_, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_\_\_

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 3 of 7

Date	Invento	r: Joanne Kamens
	Address	s: 21 Wessex Road
		Newton, MA 02459
	Citizenshi	b: US
STATE/COMMONWE	ALTH OF	
COUNTY OF	,	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	Joanne Kamens	, proved to me through satisfactory evidence of
identification, which we	ere	, '
to be the person who s	signed the preceding or attache	d document in my presence and swore or affirmed
to me that the contents	s of the document are truthful a	nd accurate to the best of (his) (her) knowledge
and belief and acknow	vledged to me that (he) (she) sig	ned it voluntarily for its stated purpose.
054		
SEAL		

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

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Page 4 of 7

Date	Inv	entor: [	Dmitry Samarsky	
	Add	dress: 1	15 Wayside Road	
		٧	Westborough, MA	01581
	Citize	nship: l	US	
STATE/COMMONWE	ALTH OF			
COUNTY OF				
On this	day of	,	, before me, the	undersigned notary public,
personally appeared	Dmitry Samarsky	1	, proved to me thro	ough satisfactory evidence of
identification, which we	ere			
to be the person who s	signed the preceding or atta	ached do	ocument in my pre	sence and swore or affirmed
to me that the contents	s of the document are truth	ful and a	accurate to the bes	t of (his) (her) knowledge
and belief and acknow	ledged to me that (he) (she	e) signed	t it voluntarily for it	s stated purpose.
SEAL				

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

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Page 5 of 7

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
STATE/COMMONWE	ALTHOP	•	
		•	
On this	_ day of		, before me, the undersigned notary public,
personally appeared		Tod M. Woolf	_, proved to me through satisfactory evidence of
identification, which we	ere		,
			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to	o me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL			
		Notary Public	

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*\** 

Attorney Docket No. R0659.70013US00 2304071.1

Page 6 of 7

Date	Inventor:	Pamela A. Pavco
	Address:	822 Plateau Road
		Longmont, Colorado 80504
	Citizenship:	US
STATE/COMMONWE/ COUNTY OF	ALTH OF:	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	Pamela A. Pavco	_, proved to me through satisfactory evidence of
identification, which we	ere	3
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

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Page 7 of 7

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware 1. Corporation, having a place of business at 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,315, bearing Attorney Docket No. R0659.70013US00, and entitled RNA INTERFERENCE IN SKIN INDICATIONS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. R0659.70013US00 2304071.1

Page 1 of 7

Date	Inventor:	Anastasia Khvorova
	Address:	10 Rocklawn Road
		Westborough, MA 01581
	Citizenship:	US
STATE/COMMONWEA	ALTH OF	
COUNTY OF	;	
On this	_ day of,	, before me, the undersigned notary public,
personally appeared	Anastasia Khvorova	_, proved to me through satisfactory evidence of
identification, which we		,
-		document in my presence and swore or affirmed
		d accurate to the best of (his) (her) knowledge
and belief and acknowl	ledged to me that (he) (she) sign	ned it voluntarily for its stated purpose.
SEAL		
	Notary Public	

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Page 2 of 7

7/2012

Date

Inventor: William Salomon Address: 210 Mountain Street East Apt. 278 Worcester, Massachusetts 01606

Citizenship: US

STATE/COMMONWEALTH OF <u>Massachusetts</u> COUNTY OF <u>Workest</u>: On this <u>Massachusetts</u>: On this <u>Massachusetts</u>, <u>ADB</u>, before me, the undersigned notary public, personally appeared <u>William Salomon</u>, proved to me through satisfactory evidence of identification, which were <u>Massachusetts</u> to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL.

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 3 of 7

Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
STATE/COMMONWE	ALTH OF	No. 41-0-11-0-11-0-11-0-11-0-11-0-11-0-11-0
COUNTY OF	;	
On this	day of ,	, before me, the undersigned notary public,
personally appeared		_, proved to me through satisfactory evidence of
identification, which we		,
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknow	riedged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		

~····

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

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Page 4 of 7

Date	Inventor	: Dmitry Samarsky
	Address	: 15 Wayside Road
		Westborough, MA 01581
	Citizenship	: US
STATE/COMMONWE	ALTH OF	
COUNTY OF		
On this		, before me, the undersigned notary public,
personally appeared	Dmitry Samarsky	, proved to me through satisfactory evidence of
identification, which we		;
to be the person who s	signed the preceding or attache	d document in my presence and swore or affirmed
		nd accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me that (he) (she) sig	ned it voluntarily for its stated purpose.
SEAL		

SEAL

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Notary Public

My commission expires:

Page 5 of 7

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF			
On this	_ day of		, before me, the undersigned notary public,
personally appeared		Tod M. Woolf	_, proved to me through satisfactory evidence of
identification, which we	ere		, ,
to me that the contents	s of the d	ocument are truthful and	document in my presence and swore or affirmed d accurate to the best of (his) (her) knowledge ed it voluntarily for its stated purpose.
SEAL	<u></u>		
		Notary Public	

Attorney Docket No. R0659.70013US00 2304071.1

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Page 6 of 7

Date Inve	ntor: Pamela A. Pavco
Add	ress: 822 Plateau Road
	Longmont, Colorado 80504
Citizen	ship: US
STATE/COMMONWEALTH OF:	
On this day of, personally appeared Pamela A. Pavco identification, which were	, before me, the undersigned notary public, , proved to me through satisfactory evidence of
to be the person who signed the preceding or atta	ched document in my presence and swore or affirmed ul and accurate to the best of (his) (her) knowledge ) signed it voluntarily for its stated purpose.
SEAL	

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

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Page 7 of 7

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware 1. Corporation, having a place of business at 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,315, bearing Attorney Docket No. R0659.70013US00, and entitled RNA INTERFERENCE IN SKIN INDICATIONS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other iurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent:

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

1

Page 1 of 7

Date	lr	iventor:	Anastasia Khvorova
	А	ddress:	10 Rocklawn Road
			Westborough, MA 01581
	Citiz	enship:	US
STATE/COMMONWEA			
COUNTY OF	:		
On this	day of		, before me, the undersigned notary public,
personally appeared	Anastasia Khvorov	1.8	, proved to me through satisfactory evidence of
identification, which we			_,, ,
to be the person who si	igned the preceding or a	ttached of	document in my presence and swore or affirmed
to me that the contents	of the document are trut	hful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (he) (s	ne) signe	ed it voluntarily for its stated purpose.
SEAL			
₩ tensf 33m	Notary Pub	lic	

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Page 2 of 7

Inventor:	William Salomon
Address:	210 Mountain Street East
	Apt. 278
	Worcester, Massachusetts 01606
Citizenship:	US

to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Date

Notary Public

My commission expires:

Page 3 of 7

8/6/2012-Date

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mi Kamenz

Inventor: Joanne Kamens Address: 21 Wessex Road Newton, MA 02459

Citizenship: US

COUNTY OF Middlesex :	
On this day of, <u>2012</u> , before me, the undersigned notary public, personally appearedJoanne Kamens, proved to me through satisfactory evidence o	f
dentification, which were Mussachusetts Driver's License	,
o be the person who signed the preceding or attached document in my presence and swore or affirmed	J
o me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge	
nd belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.	
SEAL Notary Public Notary Public	
My commission expires: October 26, 2018	

Attorney Docket No. R0659.70013US00 2304071.1

Page 4 of 7

Date	Inventor:	Dmitry Samarsky
	Address:	15 Wayside Road
		Westborough, MA 01581
	Citizenship:	US
STATE/COMMONWE	ALTH OF	
COUNTY OF		
On this	_ day of,	, before me, the undersigned notary public,
personally appeared identification, which we	Dmitry Samarsky	_, proved to me through satisfactory evidence of
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		

Notary Public

My commission expires:

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Page 5 of 7

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF			
On this	_ day of		, before me, the undersigned notary public,
personally appeared		Tod M. Woolf	_, proved to me through satisfactory evidence of
identification, which w	ere		1
to be the person who	signed the	e preceding or attached	document in my presence and swore or affirmed
to me that the content	s of the d	ocument are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	vledged to	o me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL	<b></b>		
		Maton: Dublia	

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

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Page 6 of 7

Date		Inventor:	Pamela A. Pavco
		Address:	822 Plateau Road
			Longmont, Colorado 80504
		Citizenship:	US
STATE/COMMONWE/	ALTH OF		
COUNTY OF		* *	
On this	day of		, before me, the undersigned notary public,
personally appeared	Pamela A.	······································	, proved to me through satisfactory evidence of
identification, which we	ere		- · ·
•			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me that	(he) (she) sign	ed it voluntarily for its stated purpose.
SEAL			
J	Nota	ry Public	

Attorney Docket No. R0659.70013US00 2304071.1

Page 7 of 7

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware 1. Corporation, having a place of business at 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries. in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120.315, bearing Attorney Docket No. R0659.70013US00, and entitled RNA INTERFERENCE IN SKIN INDICATIONS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent:

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. R0659.70013US00 2304071.1

Page 1 of 7

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
	Cit	tizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF	:		
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Anastasia Khvor	ova	_, proved to me through satisfactory evidence of
identification, which we	·····		,
to be the person who s	igned the preceding or	attached o	document in my presence and swore or affirmed
to me that the contents	s of the document are tr	uthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me that (he) (	(she) signe	ed it voluntarily for its stated purpose.

SEAL

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Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 2 of 7

Date	Inventor:	William Salomon
	Address:	210 Mountain Street East
		Apt. 278
		Worcester, Massachusetts 01606
	Citizenship:	US
STATE/COMMONWE	ALTH OF	
COUNTY OF		
On this	day of,	, before me, the undersigned notary public,
personally appeared	William Salomon	, proved to me through satisfactory evidence of
identification, which we		,
to be the person who s	igned the preceding or attached	document in my presence and swore or affirmed
		l accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	

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Page 3 of 7

Date		Inventor:	Joanne Kamens
		Address:	21 Wessex Road
			Newton, MA 02459
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF			
On this	day of	1	, before me, the undersigned notary public,
personally appeared	Joanne Kar	nens	_, proved to me through satisfactory evidence of
identification, which we	ere		
to be the person who s	igned the preceding	or attached	document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me that (h	ie) (she) sign	ed it voluntarily for its stated purpose.

SEAL

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Notary Public

My commission expires:

Page 4 of 7

Sep 04, 2012 Date

	D. Sanchich
Inventor:	Dmitry Samarsky
Address:	15 Wayside Road
	Westborough, MA 01581

Citizenship: US

 STATE/COMMONWEALTH OF
 MassachuseHs

 COUNTY OF
 Worcester

 On this
 4

 day of
 September, 2012, before me, the undersigned notary public, personally appeared

 Dmitry Samarsky
 , proved to me through satisfactory evidence of identification, which were

 Mass. License
 Mass. License

 to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

heah L. Guznan Notary Public

My commission expires: Mar. 14, 2019

Attorney Docket No. R0659.70013US00 2304071.1

Page 5 of 7

Date	Inventor:	Tod M. Woolf
	Address:	14 Babe Ruth Drive
		Sudbury, MA 01776-1942
	Citizenship:	US
STATE/COMMONWEALT	`H OF	
COUNTY OF	• •	
On this da	ay of,	, before me, the undersigned notary public,
personally appeared	Tod M. Woolf	_, proved to me through satisfactory evidence of
identification, which were		
to be the person who sign	ed the preceding or attached	document in my presence and swore or affirmed
to me that the contents of	the document are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowled	ged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
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SEAL

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Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 6 of 7

Date	Inventor:	Pamela A. Pavco
	Address:	822 Plateau Road
		Longmont, Colorado 80504
	Citizenship:	US
	N TH OF	
STATE/COMMONWE/	:	
On this	day of	before we the undersidered actors with
On this		, before me, the undersigned notary public,
personally appeared identification, which we	Pamela A. Pavco	_, proved to me through satisfactory evidence of
		document in my presence and swore or affirmed
•		accurate to the best of (his) (her) knowledge
		ed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 7 of 7

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware Corporation, having a place of business at 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,315, bearing Attorney Docket No. R0659.70013US00, and entitled RNA INTERFERENCE IN SKIN INDICATIONS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Page 1 of 7

Date	Inventor:	Anastasia Khvorova
	Address:	10 Rocklawn Road
		Westborough, MA 01581
	Citizenship:	US
STATE/COMMONWEAL	LTH OF	
COUNTY OF		
On this	day of ,	before me, the undersigned netery nublic
	- F	, before me, the undersigned notary public, , proved to me through satisfactory evidence of
identification, which were		_, proved to the through satisfactory evidence of
,		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
		ed it voluntarily for its stated purpose.
054		
SEAL	Notes: Dublis	
	Notary Public	

No.

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Page 2 of 7

> y

Date

Inventor: William Salomon Address: 210 Mountain Street East Apt. 278 Worcester, Massachusetts 01606 Citizenship: US

STATE/COMMONWEALTH OF \_\_\_\_\_\_\_: COUNTY OF \_\_\_\_\_\_: On this \_\_\_\_\_\_day of \_\_\_\_\_, \_\_\_\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_\_William Salomon \_\_\_\_, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_\_ to be the person who signed the preceding or attached document in my presence and swore or affirmed

to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 3 of 7

Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
STATE/COMMONWE/	ALTH OF	
COUNTY OF		
<b>-</b>		
On this	_ day of,	, before me, the undersigned notary public,
personally appeared	Joanne Kamens	, proved to me through satisfactory evidence of
identification, which we	ere	
to be the person who s	signed the preceding or attached	document in my presence and swore or affirmed
to me that the contents	s of the document are truthful and	d accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me that (he) (she) sigr	ed it voluntarily for its stated purpose.
SEAL		

Notary Public

My commission expires:

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Page 4 of 7

Date	Inventor	: Dmitry Samarsky
	Address	: 15 Wayside Road
		Westborough, MA 01581
	Citizenship	US
STATE/COMMONWE	ALTH OF:	
On this personally appeared	Dmitry Samarsky	, before me, the undersigned notary public, , proved to me through satisfactory evidence of
identification, which we		3
-		I document in my presence and swore or affirmed
		d accurate to the best of (his) (her) knowledge
and belief and acknow	nedged to me that (ne) (sne) sign	ned it voluntarily for its stated purpose.
SEAL		

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Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 5 of 7

13112

Date

Inventor: Tod M. Woolf Address: 14 Babe Ruth Drive Sudbury, MA 01776-1942

Citizenship: US

STATE/COMMONWEALTH OF SSACHUSPY COUNTY OF  $\mathcal{V}$  before me, the undersigned notary public, On this day of proved to me through satisfactory evidence of personally appeared Tod M. Woolf identification, which were 1A là, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires:



Attorney Docket No. R0659.70013US00 2304071.1

Page 6 of 7

Date	Inventor:	Pamela A. Pavco
	Address:	822 Plateau Road
		Longmont, Colorado 80504
	Citizenship:	US
STATE/COMMONWEA	LTH OF	
COUNTY OF		
On this	day of,	, before me, the undersigned notary public,
personally appeared	Pamela A. Pavco	_, proved to me through satisfactory evidence of
identification, which we		5
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		

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\* `

Notary Public

My commission expires:

Page 7 of 7

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware Corporation, having a place of business at 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,315, bearing Attorney Docket No. R0659.70013US00, and entitled RNA INTERFERENCE IN SKIN INDICATIONS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;

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3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

di.

Page 1 of 7

Date	Inventor:	Anastasia Khvorova
	Address:	10 Rocklawn Road
		Westborough, MA 01581
	Citizenship:	US
STATE/COMMONWE	ALTH OF	
COUNTY OF		
On this	day of	, before me, the undersigned notary public,
personally appeared		, proved to me through satisfactory evidence of
identification, which we	re	
to be the person who s	igned the preceding or attached of	document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
		ed it voluntarily for its stated purpose.
SEAL		
	Nieten Dubli	
	Notary Public	

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Attorney Docket No. R0659.70013US00 2304071.1

Page 2 of 7

Inventor: William Salomon Address: 210 Mountain Street East Apt. 278 Worcester, Massachusetts 01606 Citizenship: US

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Date

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

Page 3 of 7

Inventor:	Joanne Kamens
Address:	21 Wessex Road
	Newton, MA 02459
Citizenship:	US
LTH OF	
:	
day of,	, before me, the undersigned notary public,
	_, proved to me through satisfactory evidence of
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ned the preceding or attached of	document in my presence and swore or affirmed
of the document are truthful and	accurate to the best of (his) (her) knowledge
	ed it voluntarily for its stated purpose.
Notary Public	
	Citizenship: : : : 

Attorney Docket No. R0659.70013US00 2304071.1

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Page 4 of 7

Dete			
Date		Inventor:	Dmitry Samarsky
	, i	Address:	15 Wayside Road
			Westborough, MA 01581
	Citi	izenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF	•		
•			
	day of	'	, before me, the undersigned notary public,
personally appeared identification, which we	Dmitry Samarsk	(y	_, proved to me through satisfactory evidence of
	1000-1000-100-100-100-000-000-000-000-0		······································
			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (he) (s	she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notary Put	olic	

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'or---

Page 5 of 7

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
On this	_ day of	<b>7</b>	, before me, the undersigned notary public,
personally appeared		Tod M. Woolf	, proved to me through satisfactory evidence of
identification, which we	ere		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
to be the person who s	signed the	preceding or attached	document in my presence and swore or affirmed
to me that the contents	s of the do	ocument are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to	me that (he) (she) signed	ed it voluntarily for its stated purpose.
SEAL			

Notary Public

My commission expires:

Attorney Docket No. R0659.70013US00 2304071.1

y V

Page 6 of 7

Date

all i v

Pamela A. Pavco

Inventor: Pamela A. Pavco Address: 822 Plateau Road Longmont, Colorado 80504

Citizenship: US

lassachust fes STATE/COMMONWEALTH OF COUNTY OF K -ARDAR , 2012, before me, the undersigned notary public, On this day of  $\mathcal{U}$ \_, proved to me through satisfactory evidence of Pamela A. Pavco personally appeared LATANOR identification, which were Intorado NLVX to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires:



Attorney Docket No. R0659.70013US00 2304071.1

Page 7 of 7

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware 1. Corporation, having a place of business at 1500 West Park Drive: Suite 210: Westborough. Massachusetts 01581, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,315, bearing Attorney Docket No. R0659.70013US00, and entitled RNA INTERFERENCE IN SKIN INDICATIONS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent:

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

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4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. R0659.70013US00 3050452.1

Page 1 of 2

6/26/2013 Date

Inventor: Jappes Cardia

Address; /11 Bacon Street Franklin, MA 02038

Citizenship: US

STATE/COMMONWEALTH OF <u>MASSachuse43</u> COUNTY OF <u>Worcester</u>: On this <u>26</u> day of <u>June</u>, <u>2013</u>, before me, the undersigned notary public, personally appeared <u>James Cardia</u>, proved to me through satisfactory evidence of identification, which were <u>MA Drivers License</u> to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Ell. Notary Public

My commission expires:

1		
	TAMAPA	1
	Co <b>TAMARA McGRILLEN</b> Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires September 22, 2017	•

Attorney Docket No. R0659.70013US00 3050452.1

Page 2 of 2

**RECORDED: 06/13/2016**