# 504966980 06/19/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5013726

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
ANASTASIA KHVOROVA	09/23/2013
WILLIAM SALOMON	01/07/2013
JOANNE KAMENS	07/25/2013
DMITRY SAMARSKY	02/14/2013
TOD M. WOOLF	07/29/2013
PAMELA A. PAVCO	02/08/2013
LYN LIBERTINE	06/26/2013
JAMES CARDIA	08/01/2013
KAREN G. BULOCK	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:	15918605

### **CORRESPONDENCE DATA**

**Fax Number:** (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:** 617-646-8000

**Email:** patents\_OonaJ@wolfgreenfield.com,

Jasmine.Lo@WolfGreenfield.com

Correspondent Name: OONA M. JOHNSTONE

Address Line 1: WOLF, GREENFIELD & SACKS, P.C.

Address Line 2: 600 ATLANTIC AVENUE

Address Line 4: BOSTON, MASSACHUSETTS 02210

PATENT REEL: 046392 FRAME: 0137

504966980

ATTORNEY DOCKET NUMBER:	R0659.70020US05
NAME OF SUBMITTER:	OONA M. JOHNSTONE
SIGNATURE:	/Oona M. Johnstone/
DATE SIGNED:	06/19/2018

**Total Attachments: 90** source=R065970020US05-ASI-OMJ#page1.tif source=R065970020US05-ASI-OMJ#page2.tif source=R065970020US05-ASI-OMJ#page3.tif source=R065970020US05-ASI-OMJ#page4.tif source=R065970020US05-ASI-OMJ#page5.tif source=R065970020US05-ASI-OMJ#page6.tif source=R065970020US05-ASI-OMJ#page7.tif source=R065970020US05-ASI-OMJ#page8.tif source=R065970020US05-ASI-OMJ#page9.tif source=R065970020US05-ASI-OMJ#page10.tif source=R065970020US05-ASI-OMJ#page11.tif source=R065970020US05-ASI-OMJ#page12.tif source=R065970020US05-ASI-OMJ#page13.tif source=R065970020US05-ASI-OMJ#page14.tif source=R065970020US05-ASI-OMJ#page15.tif source=R065970020US05-ASI-OMJ#page16.tif source=R065970020US05-ASI-OMJ#page17.tif source=R065970020US05-ASI-OMJ#page18.tif source=R065970020US05-ASI-OMJ#page19.tif source=R065970020US05-ASI-OMJ#page20.tif source=R065970020US05-ASI-OMJ#page21.tif source=R065970020US05-ASI-OMJ#page22.tif source=R065970020US05-ASI-OMJ#page23.tif source=R065970020US05-ASI-OMJ#page24.tif source=R065970020US05-ASI-OMJ#page25.tif source=R065970020US05-ASI-OMJ#page26.tif source=R065970020US05-ASI-OMJ#page27.tif source=R065970020US05-ASI-OMJ#page28.tif source=R065970020US05-ASI-OMJ#page29.tif source=R065970020US05-ASI-OMJ#page30.tif source=R065970020US05-ASI-OMJ#page31.tif source=R065970020US05-ASI-OMJ#page32.tif source=R065970020US05-ASI-OMJ#page33.tif source=R065970020US05-ASI-OMJ#page34.tif source=R065970020US05-ASI-OMJ#page35.tif source=R065970020US05-ASI-OMJ#page36.tif source=R065970020US05-ASI-OMJ#page37.tif source=R065970020US05-ASI-OMJ#page38.tif source=R065970020US05-ASI-OMJ#page39.tif source=R065970020US05-ASI-OMJ#page40.tif source=R065970020US05-ASI-OMJ#page41.tif source=R065970020US05-ASI-OMJ#page42.tif

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PATENT REEL: 046392 FRAME: 0139

#### **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 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03, and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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:
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1

Page 1 of 10

9-53-5013 Date Inventor:	Mach
mironor.	Anastasia Khvorova
Address:	10 Rocklawn Road
	Westborough, MA 01581
Citizenship:	US
COMMONWEALTH OF MASSACHUSETTS COUNTY OF Workestur:  On this 23(1) day of Sept, 201 personally appeared Anastasia Khvorova	3 , before me, the undersigned notary public, , proved to me through satisfactory evidence of
identification, which were MA License	-
to be the person who signed the preceding or attached of	locument in my presence and swore or affirmed
to me that the contents of the document are truthful and	
and belief and acknowledged to me that (he) (she) signe	d it voluntarily for its stated purpose.
SEAL Notary Public	SARBARA BUCCIAGLIA Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires September 26, 2014
My commission expires:	

Date	Inventor:	William Salomon
	Address:	2 Farrar Avenue
		Apt. 2
		Worcester, Massachusetts 01604
	Citizenship:	US
COMMANDA DAVE AL TILLOR	- 14400 4 0111 105770	
COMMONWEALTH OF	- MASSACHUSETTS	
COUNTY OF	<b>;</b>	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	William Salomon	, proved to me through satisfactory evidence of
identification, which we	re	,
to be the person who si	gned the preceding or attached	document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
		ed it voluntarily for its stated purpose.
		A service of the serv
SEAL		
	Notary Public	
My commission exp	ires:	

Page 3 of 10

-		
Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
COMMONWEALTH OF	: MASSACHUSETTS	
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 wei	e	
to be the person who si	gned 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 acknowle	edged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
	,	
SEAL		
SLAL		<del></del>
	Notary Public	
My commission exp	ires:	

Page 4 of 10

Date	Inventor:	Dmitry Samarsky
	Address:	15 Wayside Road
		Westborough, MA 01581
	Citizenship:	US
	·	
COMMONWEALTH O	F MASSACHUSETTS	
COUNTY OF	•	
On this	day of ,	, 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 attached	document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowl	ledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		
SLAL	Notes: Dublic	
	Notary Public	
My commission exp	oires:	

Page 5 of 10

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
	*	•	
COMMONWEALTH OF	MASSACHUSETT	S	
COUNTY OF		: -	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Tod M. W	oolf	, proved to me through satisfactory evidence of
identification, which were			
to me that the contents of	of the document are	e truthful and	accurate to the best of (his) (her) knowledge of it voluntarily for its stated purpose.
	<b>0</b>	-, (,9	on votanianly for he stated purpose.
SEAL			
	Notary	Public	
My commission expir	res:		

Page 6 of 10

-		
Date	Inventor:	Pamela A. Pavco
	Address:	822 Plateau Road
		Longmont, Colorado 80504
	Citizenship:	US
		•
COMMONWEALTH OF	- MASSACHUSETTS	
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	re	, , , , , , , , , , , , , , , , , , ,
to be the person who si	gned 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		
	Notary Public	
My commission exp	ires:	

Page 7 of 10

			,
Date	<del></del>	Inventor:	Lyn Libertine
		Address:	61 Nixon Road
			Framingham, MA 01701
		Citizenship:	US
COMMONWEALTH OF	- MASSACHUSETT	S	
COUNTY OF		<u>:</u>	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Lyn Libert	tine	, 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 acknowle	edged to me that (ne	e) (sne) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notary	Public	
My commission exp	ires:		

Page 8 of 10

Date	Inventor:	James Cardia
	Address:	11 Bacon Street
		Franklin, MA 02038
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF	:	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	James Cardia	, proved to me through satisfactory evidence of
identification, which wer		,
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	ires:	

Page 9 of 10

Date		Inventor:	Karen G. Bulock
		Address:	44 Park Street
			Mendon, MA 01756
		Citizenship:	US
COMMONWEALT	H OF MASSACHUSETT	S	
COUNTY OF		:	
<u>·</u>		-	
On this	day of	,	, before me, the undersigned notary public,
personally appeare		ulock	, proved to me through satisfactory evidence of
identification, whic			,
			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and ack	nowledged to me that (he	e) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notary	Public	
My commission	n expires:		

Page 10 of 10

#### **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 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03, and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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:
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042-1

Page 1 of 10

Date	Inventor:	Anastasia Khvorova
	Address:	10 Rocklawn Road
		Westborough, MA 01581
	Citizenship:	US
COMMONWEALTH OF MASSACHUS	ETTS	
COUNTY OF	:	
	<del></del>	
On this day of	. ,	, before me, the undersigned notary public,
	a Khvorova	, proved to me through satisfactory evidence of
dentification, which were		
o be the person who signed the preced	ding or attached o	document in my presence and swore or affirmed
o me that the contents of the documen	t are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowledged to me tha	t (he) (she) signe	d it voluntarily for its stated purpose.
SEAL		
No	tary Public	
My commission expires:		
my commission expires.		

Page 2 of 10

		7/2013	
Date			•

Willan Ton

Inventor: William Salomon

Address: 2 Farrar Avenue

Apt. 2

Worcester, Massachusetts 01604

Citizenship: US

COMMONWE	ALTH	QF	MA	SS	AC	HU	SET	TS
COUNTY OF	11	1.			i	0 A		

	1	^
	in the	-
On this	11	day of Maria

On this day of farman, 2013, before me, the undersigned notary public, personally appeared William Salomon, proved to me through satisfactory evidence of

identification, which were drevers dicense,

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:

(pri/20,2018

	<u> </u>		
Date		Inventor:	Joanne Kamens
		Address:	21 Wessex Road
			Newton, MA 02459
		Citizenship:	US
COMMONWEALTH OF	· MASSACHUSETT	S	
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared	Joanne Kai	mens	, proved to me through satisfactory evidence of
identification, which wer			<del>-</del>
to be the person who sig	gned the preceding	or attached d	locument in my presence and swore or affirmed
to me that the contents	of the document are	e truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he	e) (she) signe	d it voluntarily for its stated purpose.
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SEAL			
	Notary	Public	<del></del>
My commission expi	res:	<u>.                                    </u>	

Date		Inventor:	Dmitry Samarsky
		Address:	15 Wayside Road
			Westborough, MA 01581
		Citizenship:	
COMMONWEALTH OF	F MASSACHUSETT	-s	
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On this	day of	,	, before me, the undersigned notary public,
personally appeared	Dmitry Sam	narsky	, proved to me through satisfactory evidence of
identification, which we			<u>-</u>
to be the person who si	igned the preceding	or attached d	ocument in my presence and swore or affirmed
to me that the contents	of the document are	e truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he	e) (she) signe	d it voluntarily for its stated purpose.
SEAL			
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	Notary	Public	
My commission exp	iroo		

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
COMMONWEALTH O	F MASSA	CHUSETTS	
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			
to be the person who s	igned the	preceding or attached d	ocument in my presence and swore or affirmed
to me that the contents	of the do	cument are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	ledged to	me that (he) (she) signe	d it voluntarily for its stated purpose.
			The states purpose.
SEAL			
		Notary Public	
My commission exp	oires:		

Page 6 of 10

Date	<u>-</u>	Inventor:	Pamela A. Pavco
		Address:	822 Plateau Road
			Longmont, Colorado 80504
		Citizenship:	US
	•		
COMMONWEALTH O	F MASSACHUS	SETTS	
COUNTY OF		<u>.</u>	
On this	day of		, before me, the undersigned notary public,
personally appeared	Pamela	A. Pavco	, proved to me through satisfactory evidence
dentification, which we			,
o be the person who s	igned the prece	ding or attached o	document in my presence and swore or affirme
o me that the contents	of the documer	nt are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me tha	at (he) (she) signe	ed it voluntarily for its stated purpose.
0.5.4.			
SEAL			
	No	otary Public	
My commission exp		otary Public	

Page 7 of 10

Date		Inventor:	Lyn Libertine
		Address:	61 Nixon Road
			Framingham, MA 01701
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSET	TS	
COUNTY OF			
On this	day of	, <b>1</b>	, before me, the undersigned notary public,
personally appeared	Lyn Libe	ertine	, proved to me through satisfactory evidence of
identification, which we	ere		
to me that the contents	of the document a	re truthful and a	ocument in my presence and swore or affirmed accurate to the best of (his) (her) knowledge d it voluntarily for its stated purpose.
SEAL			
	Nota	ry Public	
		y Fublic	
My commission exp	oires:		

Page 8 of 10

Date		Inventor:	James Cardia
		Address:	11 Bacon Street
			Franklin, MA 02038
		Citizenship:	US
000404000045415415			
COMMONWEALTH O	F MASSACHUSET	TS	
COUNTY OF		:	
On this	da		
	day of	. ,	, before me, the undersigned notary public,
personally appeared	James C	ardia	, proved to me through satisfactory evidence of
identification, which we	ere		,
to be the person who s	igned the preceding	g or attached o	locument in my presence and swore or affirmed
to me that the contents	of the document a	re truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (k	ne) (she) signe	d it voluntarily for its stated purpose.
	ougus to mo that (i	io) (she) signe	on voluntarily for its stated purpose.
SEAL			
02.12			
	Notar	y Public	
My commission exp	oires:		
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Page 9 of 10

•			·
Date		Inventor:	Karen G. Bulock
		Address:	44 Park Street
			Mendon, MA 01756
		Citizenship:	US
COMMONWEALTH OI	F MASSACHUS	BETTS	
COUNTY OF		<del></del>	
On this	day of		, before me, the undersigned notary public,
personally appeared	Karen	G. Bulock	, proved to me through satisfactory evidence of
dentification, which we	re		
o be the person who s	igned the prece	ding or attached c	ocument in my presence and swore or affirmed
o me that the contents	of the docume	nt are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that	at (he) (she) signe	d it voluntarily for its stated purpose.
			•
SEAL			
SEAL	N	otary Public	
SEAL  My commission exp		otary Public	

Page 10 of 10

### **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 Corporation 1. 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659,70020US03. and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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:
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1

Page 1 of 10

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSE	TTS	
COUNTY OF		:	
On this	day of	3	, 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
			accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that	(he) (she) signe	d it voluntarily for its stated purpose.
SEAL			
	Nota	ary Public	
My commission exp	oires:		

Date	Inventor:	William Salomon
	Address:	2 Farrar Avenue
		Apt. 2
		Worcester, Massachusetts 01604
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
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 wer	e	<del>-</del> ,
to be the person who sig	gned 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 acknowle	edged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	ires:	

7 /25 /2013 Date

Inventor: Joanne Kamens

Address: 21 Wessex Road

Newton, MA 02459

Citizenship: US

COMMONWEAL <sup>*</sup>	TH OF MASSACHUSET	ΓS
COUNTY OF	Middlesex	:

On this 25<sup>th</sup> day of 1/4/y , before me, the undersigned notary public, personally appeared Joanne Kamens , 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 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:

8/22/19

JULIE FRIZZI

Notary Public

COMMONWEALTH OF MASSACHUSETTS

My Commission Expires

August 22, 2019

Date	Inventor:	Dmitry Samarsky
	Address:	15 Wayside Road
		Westborough, MA 01581
	Citizenship:	US
COMMONWEALTH O	F MASSACHUSETTS	
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
		ed it voluntarily for its stated purpose.
	, g	The second second periposes.
SEAL		
	Notary Public	
My commission exp	oires:	

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	-
COMMONWEALTH O	F MASSACHU	JSETTS	
COUNTY OF		:	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Too	d M. Woolf	, proved to me through satisfactory evidence of
identification, which we			1
			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	leagea to me t	that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
		Notary Public	
My commission exp	oires:		

Date	Invento	or: Pamela A. Pavco
	Addres	ss: 822 Plateau Road
		Longmont, Colorado 80504
	Citizenshi	ip: US
0011140111454154	- 144 00 4 0 / / / O	
COMMONWEALTH O	F MASSACHUSETTS	
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	ere	,
		ed document in my presence and swore or affirmed
to me that the contents	of the document are truthful a	and accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (he) (she) siç	gned it voluntarily for its stated purpose.
SEAL		
	Notary Public	<del></del>
Mv commission exp	oires:	

Date		Inventor:	Lyn Libertine
Dato			•
		Address:	61 Nixon Road
			Framingham, MA 01701
		Citizenship:	US
COMMONWEALTH O	F MASSACH	IUSETTS	
COUNTY OF		:	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	- <u>L</u> y	yn Libertine	, proved to me through satisfactory evidence of
identification, which we	re		
to be the person who s	igned the pre	eceding or attached	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	<u></u>
My commission exp	oires:		

Date		Inventor:	James Cardia
		Address:	11 Bacon Street
			Franklin, MA 02038
		Citizenship:	US
COMMONWEALTH OF	F MASSACHUSETT	S	
COUNTY OF	W/ CO/ COTOCETT		
		-	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	James Ca	rdia	, proved to me through satisfactory evidence of
identification, which we	re		<del>-</del>
			document in my presence and swore or affirmed
to me that the contents	of the document are	e truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (he	e) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
OLAL			
	Notary	Public	
My commission exp	oires:		

Date		Inventor:	Karen G. Bulock
		Address:	44 Park Street
			Mendon, MA 01756
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSETT	S	
COUNTY OF		: -	
On this	day of	1	, before me, the undersigned notary public,
personally appeared	Karen G. Bı	ulock	, 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 acknowl	ledged to me that (he	e) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notary	Public	
My commission exp	oires:		

# **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 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03, and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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;
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1

Page 1 of 10

Date	Inventor:	Anastasia Khvorova
	Address:	10 Rocklawn Road
		Westborough, MA 01581
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
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 wer		_, process to the among to consider,
to be the person who sig	gned 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 acknowle	edged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
SEAL		
	Notary Public	
My commission exp	ires:	

Date	<del></del>	Inventor:	William Salomon
		Address:	2 Farrar Avenue
			Apt. 2
			Worcester, Massachusetts 01604
		Citizenship:	US
COMMONWEALTH OF	- MASSACHUSETT	S	
COUNTY OF	<u> </u>	<u>:</u>	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	William Sal	omon	, proved to me through satisfactory evidence of
identification, which we	re		
to be the person who s	igned the preceding	or attached	document in my presence and swore or affirmed
to me that the contents	of the document are	e truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (he	e) (she) signe	ed it voluntarily for its stated purpose.
,			
SEAL			
	Notary	y Public	A A A A A A A A A A A A A A A A A A A
My commission exp	oires:		

Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
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 wer		,
		document in my presence and swore or affirmed
		d accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	<del></del>
My commission exp	vires:	

Fel 14, 80/3
Date

Inventor: Dmitry Samarsky

Address: 15 Wayside Road

Westborough, MA 01581

enets

Citizenship: US

	LTH OF MASSACHUSET	TS
COUNTY OF	Worcester	:

On this 14th day of Edward

day of February, , 2013, before me, the undersigned notary public, Dmitry Samarsky, , proved to me through satisfactory evidence of

identification, which were MA Drivers 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** 

personally appeared

My commission expires:

TAMARA McGRILLEN

Notary Public

COMMONWEALTH OF MASSACHUSETTS

My Commission Expires
September 22, 2017

Date	Inventor:	Tod M. Woolf
	Address:	14 Babe Ruth Drive
		Sudbury, MA 01776-1942
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
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 were		<u> </u>
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowle	dged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
	•	

Date	<del></del>	Inventor:	Pamela A. Pavco
		Address:	822 Plateau Road
			Longmont, Colorado 80504
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSETT	S	
COUNTY OF		<u>:</u> -	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Pamela A. I	Pavco	, 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	of the document are	e truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me that (h	e) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notary	y Public	
My commission ex	nires:		

Date		Inventor:	Lyn Libertine
		Address:	61 Nixon Road
			Framingham, MA 01701
		Citizenship:	US
COMMONWEALTH O	F MASSACH	USETTS	
COUNTY OF		•	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Ly	n Libertine	, proved to me through satisfactory evidence of
identification, which we			,
to be the person who s	igned the pre	eceding or attached of	document in my presence and swore or affirmed
to me that the contents	of the docur	nent are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	ledged to me	that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
		Notary Public	
My commission ex	nires:		

Page 8 of 10

Date		Inventor:	James Cardia
		Address:	11 Bacon Street
			Franklin, MA 02038
		Citizenship:	US
		•	
COMMONWEALTH OF	F MASSACHUS	ETTS	
COUNTY OF		:	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Jame	s Cardia	, proved to me through satisfactory evidence of
identification, which we	re		<u> </u>
to be the person who s	igned the preced	ding or attached o	document in my presence and swore or affirmed
to me that the contents	of the documen	nt are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me tha	at (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
SEAL			
*	No	otary Public	
My commission exp	oires:		

Date	Inventor:	Karen G. Bulock
	Address:	44 Park Street
		Mendon, MA 01756
	Citizenship:	US
COMMONWEALTH OF	- MAGGACHI IGETTO	
	WASSACTIOSETTS	
COUNTY OF	<del>.</del>	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	Karen G. Bulock	, proved to me through satisfactory evidence of
identification, which we	re	
to be the person who si	gned 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
		ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	nires:	

Page 10 of 10

## **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 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03, and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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;
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1 Page 1 of 10

Date	Inventor:	Anastasia Khvorova
	Address:	10 Rocklawn Road
		Westborough, MA 01581
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
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
		accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	······
My commission exp	ires:	

	<del></del>	
Date	Inventor:	William Salomon
	Address:	2 Farrar Avenue
		Apt. 2
		Worcester, Massachusetts 01604
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF		
On this	alass af	hafana na tha a ta ta ta ta ta
On this	day of ,	, before me, the undersigned notary public,
personally appeared	William Salomon	, proved to me through satisfactory evidence of
identification, which we		<u>,</u>
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	water to the state of the state
	•	
My commission exp	ires:	

Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
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 were		
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp		

Date	<del></del>	Inventor:	Dmitry Samarsky
		Address:	15 Wayside Road
			Westborough, MA 01581
		Citizenship:	US
COMMONWEALTH OF	MASSACHUSETT	S	
COUNTY OF		:	
On this	dovet		hafara ma the undersigned natury public
On this	day of	oroley	, before me, the undersigned notary public,
personally appeared identification, which wei	Dmitry Sam	aisky	, proved to me through satisfactory evidence of
·		or attached o	, 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			
	Notary	Public	
My commission exp	ires:		

Inventor: Tod M. Wool

Address: 14 Babe Ruth Drive

Sudbury, MA 01776-1942

Citizenship: US

COMMONWEA	ALTH OF MASSACHUSETTS	
COUNTY OF	Middlesex:	

On this personally appeared

, 2013, before me, the undersigned notary public, proved to me through satisfactory evidence of

identification, which were MA

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** 

My commission expires:

	Barrier Barrier	
Date	Inventor:	Pamela A. Pavco
	Address:	822 Plateau Road
		Longmont, Colorado 80504
	Citizenship:	US
COMMONWEALTH OF	· MASSACHUSETTS	
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	re	3
to be the person who si	gned the preceding or attached o	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
		ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	ires:	
,		Manufacture and the second sec

Date	<del></del>	Inventor:	Lyn Libertine
		Address:	61 Nixon Road
			Framingham, MA 01701
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSETT	-S	
COUNTY OF		: 	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Lyn Liber	tine	, 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	ledged to me that (h	e) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notary	/ Public	<del></del>
My commission exp	oires:		

Date	Inventor:	James Cardia
	Address:	11 Bacon Street
		Franklin, MA 02038
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF	:	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	James Cardia	_, proved to me through satisfactory evidence of
identification, which wer	·e	,
to be the person who sign	gned 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 acknowle	edged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	ires:	
		<del></del>

Date	Inventor:	Karen G. Bulock
	Address:	44 Park Street
		Mendon, MA 01756
	Citizenship:	US
COMMONWEALTH OF	F MASSACHUSETTS	
COUNTY OF	:	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	Karen G. Bulock	_, proved to me through satisfactory evidence of
identification, which we		<u>,</u>
•	• •	document in my presence and swore or affirmed
		l accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (ne) (sne) sign	ed it voluntarily for its stated purpose.
SEAL		
OLAL	Notary Public	
	<u>-</u>	
My commission exp	oires:	
	AND THE PERSON NAMED IN COLUMN TO TH	

## **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 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03. and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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;
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1 Page 1 of 10

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSETT	rs	
COUNTY OF		<u>:</u>	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Anastasia Ki	nvorova	, proved to me through satisfactory evidence of
identification, which we	re		
•	•		document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknowl	ledged to me that (h	e) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notar	y Public	
My commission exp	pires:		

Page 2 of 10

Date	Inventor:	William Salomon
	Address:	2 Farrar Avenue
		Apt. 2
		Worcester, Massachusetts 01604
	Citizenship:	US
COMMONWEALTH O	F MASSACHUSETTS	
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	re	<del>_</del> ,
to be the person who s	igned the preceding or attached	document in my presence and swore or affirmed
to me that the contents	of the document are truthful and	daccurate to the best of (his) (her) knowledge
and belief and acknow	edged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	pires:	

Date		Inventor:	Joanne Kamens
		Address:	21 Wessex Road
			Newton, MA 02459
		Citizenship:	US
COMMONWEALTH OF	- MASSACHUSET	rs	
COUNTY OF		:	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Joanne Ka	amens	, proved to me through satisfactory evidence of
identification, which we			,
			document in my presence and swore or affirmed
to me that the contents	of the document ar	e truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (h	ne) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notar	y Public	·····
My commission exp	oires:		

Page 4 of 10

Date		Inventor:	Dmitry Samarsky
		Address:	15 Wayside Road
			Westborough, MA 01581
	•	Citizenship:	US
COMMONWEALTH O	F MASSACHUSETTS	S	
COUNTY OF		:	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Dmitry Sama	arsky	, 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	ledged to me that (he	e) (she) sign	ed it voluntarily for its stated purpose.
SEAL			
	Notary	Public	
My commission ex	oires:		

Page 5 of 10

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSET	ΓS	
COUNTY OF		<u>:</u>	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Tod M. V	Voolf	, 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 (h	ne) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notar	y Public	<del></del>
My commission exp			

Address:	822 Plateau Road
	Longmont, Colorado 80504
Citizenship:	US
- 6	
State of Colorado	
COMMONWEALTH OF MASSACHUSETTS	
country of Poulder:	
oth Ed la	2
On this 61 day of TEO,	, before me, the undersigned notary public,
personally appeared Pamela A. Pavco	, proved to me through satisfactory evidence of
identification, which were Colorodo Driver	Elicensu
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) signe	ed it voluntarily for its stated purpose.
	He 1
SEAL	MARY L BLATZER NOTARY PUBLIC
Notary Public	STATE OF COLORADO
My commission expires: \$7.13	NOTARY ID 19984010748 MY COMMISSION EXPIRES AUGUST 7, 20

Date		Inventor:	Lyn Libertine
		Address:	61 Nixon Road
			Framingham, MA 01701
		Citizenship:	US
COMMONWEALTH O	F MASSA	CHUSETTS	
COUNTY OF		<del>.</del>	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	-	Lyn Libertine	, 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
to me that the contents	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			
	<del> </del>	Notary Public	<del></del>
Mv commission ex	pires:		

Date		Inventor:	James Cardia
		Address:	11 Bacon Street
			Franklin, MA 02038
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSETT	rs	
COUNTY OF		<u>:</u>	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	James Ca	ardia	, 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 acknowl	leagea to me that (n	ie) (sne) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notar	y Public	<del></del>
My commission exp	oires:		

Page 9 of 10

Date Inventor: Karen G. Bulock Address: 44 Park Street Mendon, MA 01756  Citizenship: US  COMMONWEALTH OF MASSACHUSETTS COUNTY OF :  On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , proved to me through satisfactory evidence of identification, which were , proved to me through satisfactory evidence of to 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:				
COMMONWEALTH OF MASSACHUSETTS COUNTY OF  On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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	Date	Inventor:	Karen G. Bulock	
COMMONWEALTH OF MASSACHUSETTS COUNTY OF  On this day of , , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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		Address:	44 Park Street	
COMMONWEALTH OF MASSACHUSETTS COUNTY OF :  On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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			Mendon, MA 01756	
On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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		Citizenship:	US	
On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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				
On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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				
On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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				
On this day of , , before me, the undersigned notary public, personally appeared Karen G. Bulock , 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	001010101010101010			
On this day of,, before me, the undersigned notary public, personally appeared Karen G. Bulock, 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		- MASSACHUSETTS		
personally appeared Karen G. Bulock , 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	COUNTY OF			
identification, which were	On this	day of ,	, before me, the undersigned notary public,	
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	personally appeared	Karen G. Bulock	, proved to me through satisfactory evidence of	
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	identification, which we	re	<del>_</del>	
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.  SEAL  Notary Public	to be the person who s	igned the preceding or attached	document in my presence and swore or affirmed	
SEAL Notary Public	to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge			
Notary Public	and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.			
Notary Public				
Notary Public	QEAI			
·	JLAL	Notory Public	<del></del>	
My commission expires:		Notary Public		
	My commission exp	oires:		

Page 10 of 10

## **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 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03, and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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;
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1

Page 1 of 10

Date	Invento	or: Anastasia Khvorova		
	Addres	s: 10 Rocklawn Road		
		Westborough, MA 01581		
	Citizenshi	p: US		
COMMONWEALTH OF	MASSACHUSETTS			
COUNTY OF	:			
<u></u>				
On this	day of ,	, before me, the undersigned notary public,		
personally appeared	Anastasia Khvorova	, 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 expi	res:			

Date	Inventor	: William Salomon		
	Address	: 210 Mountain Street East		
		Apt. 278		
		Worcester, Massachusetts 01606		
	Citizanahin			
	Citizenship	: US		
COMMONWEALTH OF	MASSACHUSETTS			
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				
•	•	d 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	<del></del>		
My commission exp	oires:			
y commiscion exp				

Date		Inventor:	Joanne Kamens
		Address:	21 Wessex Road
			Newton, MA 02459
	С	itizenship:	US
COMMONWEALTH OF	MASSACHUSETTS		
COUNTY OF	:		
On this	day of		, before me, the undersigned notary public,
personally appeared	Joanne Kam	' ens	, proved to me through satisfactory evidence of
identification, which wer	e		_ ',
to be the person who sig	gned the preceding o	r attached	document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me that (he)	(she) sign	ed it voluntarily for its stated purpose.
SEAL			
OL/IL	Notary F	Public	
My commission exp	ires:		

Page 4 of 10

Date	Invento	or: Dmitry Samarsky
	Addres	s: 15 Wayside Road
		Westborough, MA 01581
	Citizenshi	p: US
COMMONWEALTH OF	F MASSACHUSETTS	
COUNTY OF		
On this	day of ,	, 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	igned the preceding or attache	ed document in my presence and swore or affirmed
to me that the contents	of the document are truthful a	and accurate to the best of (his) (her) knowledge
and belief and acknowl	edged to me that (he) (she) si	gned it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	pires:	

Page 5 of 10

Date		Inventor:	Tod M. Woolf	
		Address:	14 Babe Ruth Drive	
			Sudbury, MA 01776-1942	
	(	Citizenship:	US	
COMMONWEALTH OF	MASSACHUSETTS	S		
COUNTY OF		:		
On this	day of		, before me, the undersigned notary public,	
personally appeared	Tod M. Wo	' oolf	, 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				
OLAL	Notary	Public	<del></del>	
My commission expi	res:			

Page 6 of 10

Date		Inventor:	Pamela A. Pavco
		Address:	822 Plateau Road
			Longmont, Colorado 80504
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSE	гтѕ	
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			,
	=		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			
	Note	ary Public	
My commission ex	pires:		

20 June 2013

Inventor: Lyn Libertine

Address: 61 Nixon Road

Framingham, MA 01701

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

**COUNTY OF** 

(1) orcestere

On this personally appeared

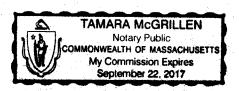
day of Jule, , 2013, before me, the undersigned notary public, proved to me through satisfactory evidence of

identification, which were MA Driver's 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

My commission expires:



Date	Inventor:	James Cardia		
	Address:	11 Bacon Street		
		Franklin, MA 02038		
	Citizenship:	US		
COMMONWEALTH OF	F MASSACHUSETTS			
COUNTY OF	:			
On this	day of ,	, before me, the undersigned notary public,		
personally appeared	James Cardia	, proved to me through satisfactory evidence of		
identification, which we				
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 acknowle	eagea to me that (ne) (sne) sign	ed it voluntarily for its stated purpose.		
SEAL				
	Notary Public			
My commission exp	pires:			

Page 9 of 10

	<u></u>	
Date	Inventor:	Karen G. Bulock
	Address:	44 Park Street
		Mendon, MA 01756
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF	<u> </u>	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	Karen G. Bulock	, proved to me through satisfactory evidence of
identification, which wer	е	
to be the person who sig	gned 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 acknowle	edged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		
OLAL	Notary Public	
My commission exp	ires:	

Page 10 of 10

## **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 Corporation 1. 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03, and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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;
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1

Page 1 of 10

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSE	TTS	
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
			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			
	Not	ary Public	<del></del>
My commission ex	pires:		

Date		Inventor:	William Salomon
	,	Address:	2 Farrar Avenue
			Apt. 2
			Worcester, Massachusetts 01604
	Citi	izenship:	US
COMMONWEALTH O	F MASSACHUSETTS		
COUNTY OF			4
On this	day of	,	, before me, the undersigned notary public,
personally appeared	William Salomo	on	, proved to me through satisfactory evidence of
identification, which we	ere		
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	of the document are tru	uthful and	accurate to the best of (his) (her) knowledge
and belief and acknowle	ledged to me that (he) (s	she) signe	ed it voluntarily for its stated purpose.
SEAL			
SEAL			
	Notary Pu	ıblic	
My commission exp	pires:		

Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF	:	
On this	day of ,	, before me, the undersigned notary public,
personally appeared	Joanne Kamens	, proved to me through satisfactory evidence of
*		
to be the person who sig	gned the preceding or attached	
to be the person who sign to me that the contents	gned the preceding or attached of the document are truthful and	accurate to the best of (his) (her) knowledge
to be the person who sign to me that the contents	gned the preceding or attached of the document are truthful and	
to be the person who sign to me that the contents	gned the preceding or attached of the document are truthful and	accurate to the best of (his) (her) knowledge
to be the person who sign to me that the contents	gned the preceding or attached of the document are truthful and	accurate to the best of (his) (her) knowledge
to me that the contents and belief and acknowle	gned the preceding or attached of the document are truthful and	accurate to the best of (his) (her) knowledge

APOLICE CONTRACTOR OF THE PROPERTY OF THE PROP	MANIMAN WAY	
Date	Inventor:	Dmitry Samarsky
	Address:	15 Wayside Road
		Westborough, MA 01581
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF	:	
		,
On this	day of ,	, before me, the undersigned notary public,
personally appeared	Dmitry Samarsky	, proved to me through satisfactory evidence of
identification, which wer		
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowle	eaged to me that (ne) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	<u> </u>
My commission exp	ires:	

			77-39-01-01-0
Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
	!	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	S	
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared	Tod M. We	'	, proved to me through satisfactory evidence of
identification, which wer			,
to be the person who sig	gned the preceding	or attached o	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 acknowle	edged to me that (he	e) (she) signe	ed it voluntarily for its stated purpose.
CEAL			
SEAL			
	Notary	Public	
My commission exp	ires:		

Page 6 of 10

Date  Inventor: Pamela A. Pavco Address: 822 Plateau Road Longmont, Colorado 80504  Citizenship: US  COMMONWEALTH OF MASSACHUSETTS 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 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				
COMMONWEALTH OF MASSACHUSETTS COUNTY OF  On this day of pamela A. Pavco personally appeared Pamela A. Pavco personally appeared 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	Date	In	ventor:	Pamela A. Pavco
COMMONWEALTH OF MASSACHUSETTS COUNTY OF :  On this day of pamela A. Pavco personally appeared Pamela A. Pavco personally appeared phamela A. Pavco personally a		Ad	ddress:	822 Plateau Road
COMMONWEALTH OF MASSACHUSETTS COUNTY OF				Longmont, Colorado 80504
On this day of,, before me, the undersigned notary public, personally appeared Pamela A. Pavco, 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		Citiz	enship:	US
On this day of,, before me, the undersigned notary public, personally appeared Pamela A. Pavco, 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				
On this day of,, before me, the undersigned notary public, personally appeared Pamela A. Pavco, 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				
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On this day of,, before me, the undersigned notary public, personally appeared Pamela A. Pavco, 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				
On this day of	COMMONWEALTH OF	MASSACHUSETTS		
personally appeared Pamela A. Pavco , 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	COUNTY OF			
personally appeared Pamela A. Pavco , 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	On this	day 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		-	_ '	<u> </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	· · · · · · · · · · · · · · · · · · ·		)	, proved to me through satisfactory evidence of —
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	, and the second		tachod (	,
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.  SEAL  Notary Public	•	• •		
SEAL Notary Public				· · · · · · · · · · · · · · · ·
Notary Public		sages to me mat (no) (o.	.0, 0.9	to it is a many to the states purpose.
Notary Public				
·	SEAL			
My commission expires:		Notary Pub	lic	unit-re-dimensional desiration and the second secon
wy commission expires.	My commission exp	pires:		

Date	****	Inventor:	Lyn Libertine
		Address:	61 Nixon Road
			Framingham, MA 01701
		Citizenship:	US
COMMONWEALTH O	F MASSACHL	JSETTS	
COUNTY OF	****		
On this	day of	,	, before me, the undersigned notary public,
personally appeared		n Libertine	, 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 acknowl	eagea to me t	tnat (ne) (sne) signe	ed it voluntarily for its stated purpose.
SEAL			
		Notary Public	
My commission exp	pires:		

<u>8/1/2013</u> Date

Inventor: James Cardia

Address: 11 Bacon Street

Franklin, MA 02038

Citizenship: US

COMMONWEALTH OF N	<b>JASSACHUSETTS</b>	
COUNTY OF Word	ester:	
	day of August,	2013, before me, the undersigned notary public,
personally appeared	James Cardia	, proved to me through satisfactory evidence of
identification, which were	MA Drivershi	inst.
to be the person who sign		hed document in my presence and swore or affirmed

d 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** 

My commission expires:

TAMARA McGRILLEN Notary Public
COMMONWEALTH OF MASSACHUSETTS My Commission Expires September 22, 2017

Date	Inventor:	Karen G. Bulock
	Address:	44 Park Street
		Mendon, MA 01756
	Citizenship:	US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF	:	
On this	day of ,	, before me, the undersigned notary public,
personally appeared _	Karen G. Bulock	_, proved to me through satisfactory evidence of
identification, which were		,
-	·	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 acknowle	dged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
SEAL		
	Notary Public	
My commission expi	res:	

## **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 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 September 24, 2012 under No. 13/636,755, bearing Attorney Docket No. R0659.70020US03, and entitled RNA INTERFERENCE IN DERMAL AND FIBROTIC INDICATIONS, and in and to the application and all corresponding provisional, 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;
- 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 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 information provided above, whether discovered prior to or after recordation; 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
- 5. 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. R0659.70020US03 2860042.1

Page 1 of 10

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSE	TTS	
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			<del></del>
			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	reaged to me man	(rie) (srie) signe	ed it voluntarily for its stated purpose.
SEAL	4		
	Note	ary Public	
My commission ex	pires:		

Page 2 of 10

Date	Inventor:	William Salomon
	Address:	2 Farrar Avenue
		Apt. 2
		Worcester, Massachusetts 01604
	Citizenship:	US
	·	
COMMONWEALTH OF	F MASSACHUSETTS	
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		_
denuncation, writen we	ere	•
to be the person who s	igned the preceding or attached of	
to be the person who s to me that the contents	igned the preceding or attached or of the document are truthful and	accurate to the best of (his) (her) knowledge
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to be the person who s to me that the contents	igned the preceding or attached or of the document are truthful and	accurate to the best of (his) (her) knowledge
to be the person who s to me that the contents	igned the preceding or attached or of the document are truthful and	accurate to the best of (his) (her) knowledge
to be the person who s to me that the contents and belief and acknowl	igned the preceding or attached or of the document are truthful and	accurate to the best of (his) (her) knowledge

Date	Invent	tor: Joanne Kamens
	Addre	ss: 21 Wessex Road
		Newton, MA 02459
	Citizensh	nip: US
COMMONWEALTH OF	MASSACHUSETTS	
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		
		ed document in my presence and swore or affirmed
		and accurate to the best of (his) (her) knowledge igned it voluntarily for its stated purpose.
and belief and acknowle	suged to me that they (she) s	igned it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	vires:	

Page 4 of 10

Date		Inventor:	Dmitry Samarsky
		Address:	15 Wayside Road
			Westborough, MA 01581
		Citizenship:	US
COMMONWEALTH O	F MASSACHUSET	TS	
COUNTY OF		_: _	
On this	day of	<b>j</b> .	, before me, the undersigned notary public,
personally appeared	Dmitry Sar	marsky	, 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	leaged to me that (r	ne) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notar	ry Public	
My commission exp	pires:		

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
COMMONWEALTH OF	MASSACE	HUSETTS	
COUNTY OF	WINCOMO		
		•	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	To	od M. Woolf	, proved to me through satisfactory evidence of
identification, which we	re		
to be the person who si	gned the pr	eceding or attached of	document in my presence and swore or affirmed
to me that the contents	of the docu	ment are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me	e that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
OL/ IL		Notary Public	· · · · · · · · · · · · · · · · · · ·
		. total y 1 dollo	
My commission exp	ires:		

Page 6 of 10

<b>A</b> .		
Date	Inve	entor: Pamela A. Pavco
	Add	dress: 822 Plateau Road
		Longmont, Colorado 80504
	Citizer	nship: US
COMMONWEALTH OF	MASSACHUSETTS	
COUNTY OF	<u> </u>	
On this	day of	, before me, the undersigned notary public,
personally appeared	Pamela A. Pavco	, proved to me through satisfactory evidence of
identification, which wer	'e	
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		ched document in my presence and swore or affirmed
to me that the contents	of the document are truthf	ul and accurate to the best of (his) (her) knowledge
to me that the contents	of the document are truthf	
to me that the contents	of the document are truthf	ul and accurate to the best of (his) (her) knowledge
to me that the contents	of the document are truthf	ul and accurate to the best of (his) (her) knowledge
to me that the contents and belief and acknowle	of the document are truthf	ul and accurate to the best of (his) (her) knowledge ) signed it voluntarily for its stated purpose.

	<u></u>		
Date	Inventor:	Lyn Libertine	
	Address:	61 Nixon Road	
		Framingham, MA 01701	
	Citizenship:	US	
COMMONWEALTH OF	MASSACHUSETTS		
COUNTY OF	:		
On this	day of ,	, before me, the undersigned notary public,	
personally appeared	Lyn Libertine	_, proved to me through satisfactory evidence of	
identification, which wer		,	
· ·	· · · · · ·	document in my presence and swore or affirmed	
to me that the contents	of the document are truthful and	d accurate to the best of (his) (her) knowledge	
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.			
0541			
SEAL		·	
	Notary Public		
My commission exp	ires:		

Page 8 of 10

Date		Inventor:	James Cardia	
		Address:	11 Bacon Street	
			Franklin, MA 02038	
		Citizenship:	US	
COMMONWEALTH OF	MASSAC	HUSETTS		
COUNTY OF		:		
On this	day of	,	, before me, the undersigned notary public,	
personally appeared	J	ames Cardia	, proved to me through satisfactory evidence of	
identification, which wei	re			
to be the person who si	gned the p	receding or attached o	document in my presence and swore or affirmed	
to me that the contents	of the docu	ument 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				
SEAL				
		Notary Public		
My commission exp	ires:			

Page 9 of 10

6/26/2013

Inventor: Karen G. Bulock

Address: 44 Park Street

Mendon, MA 01756

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

**COUNTY OF** 

Worrestere

On this personally appeared

\_\_\_\_, 20/3, before me, the undersigned notary public,

, proved to me through satisfactory evidence of

identification, which were

MA Drivers iconse 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** 

My commission expires:

TAMARA MCGRILLEN

Notary Public MONWEALTH OF MASSACHUSETTS My Commission Expires September 22, 2017

Page 10 of 10

**PATENT** REEL: 046392 FRAME: 0229

**RECORDED: 06/19/2018**