502390129 06/19/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Anastasia Khvorova	08/07/2012
William Salomon	08/07/2012
Joanne Kamens	08/06/2012
Dmitry Samarsky	09/04/2012
Tod M. Woolf	07/31/2012
Michelle Miller	02/22/2013
Karen G. Bulock	07/26/2012

RECEIVING PARTY DATA

Name:	RXi Pharmaceuticals Corporation
Street Address:	60 Prescott Street
City:	Worcester
State/Country:	MASSACHUSETTS
Postal Code:	01605

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13120341

CORRESPONDENCE DATA

Fax Number: 6176468646

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 617-646-8000

Email: patents_OonaJ@wolfgreenfield.com

Correspondent Name: Oona M. Johnstone
Address Line 1: 600 Atlantic Avenue
Address Line 2: Wolf Greenfield

Address Line 4: Boston, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER: | R0659.70014US00

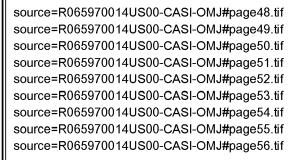
502390129 PATENT
REEL: 030642 FRAME: 0715

OP \$40,00 13120341

NAME OF SUBMITTER:	Oona M. Johnstone
Signature:	/Oona M. Johnstone/
Date:	06/19/2013

Total Attachments: 56 source=R065970014US00-CASI-OMJ#page1.tif source=R065970014US00-CASI-OMJ#page2.tif source=R065970014US00-CASI-OMJ#page3.tif source=R065970014US00-CASI-OMJ#page4.tif source=R065970014US00-CASI-OMJ#page5.tif source=R065970014US00-CASI-OMJ#page6.tif source=R065970014US00-CASI-OMJ#page7.tif source=R065970014US00-CASI-OMJ#page8.tif source=R065970014US00-CASI-OMJ#page9.tif source=R065970014US00-CASI-OMJ#page10.tif source=R065970014US00-CASI-OMJ#page11.tif source=R065970014US00-CASI-OMJ#page12.tif source=R065970014US00-CASI-OMJ#page13.tif source=R065970014US00-CASI-OMJ#page14.tif source=R065970014US00-CASI-OMJ#page15.tif source=R065970014US00-CASI-OMJ#page16.tif source=R065970014US00-CASI-OMJ#page17.tif source=R065970014US00-CASI-OMJ#page18.tif source=R065970014US00-CASI-OMJ#page19.tif source=R065970014US00-CASI-OMJ#page20.tif source=R065970014US00-CASI-OMJ#page21.tif source=R065970014US00-CASI-OMJ#page22.tif source=R065970014US00-CASI-OMJ#page23.tif source=R065970014US00-CASI-OMJ#page24.tif source=R065970014US00-CASI-OMJ#page25.tif source=R065970014US00-CASI-OMJ#page26.tif source=R065970014US00-CASI-OMJ#page27.tif source=R065970014US00-CASI-OMJ#page28.tif source=R065970014US00-CASI-OMJ#page29.tif source=R065970014US00-CASI-OMJ#page30.tif source=R065970014US00-CASI-OMJ#page31.tif source=R065970014US00-CASI-OMJ#page32.tif source=R065970014US00-CASI-OMJ#page33.tif source=R065970014US00-CASI-OMJ#page34.tif source=R065970014US00-CASI-OMJ#page35.tif source=R065970014US00-CASI-OMJ#page36.tif source=R065970014US00-CASI-OMJ#page37.tif source=R065970014US00-CASI-OMJ#page38.tif source=R065970014US00-CASI-OMJ#page39.tif source=R065970014US00-CASI-OMJ#page40.tif source=R065970014US00-CASI-OMJ#page41.tif source=R065970014US00-CASI-OMJ#page42.tif source=R065970014US00-CASI-OMJ#page43.tif source=R065970014US00-CASI-OMJ#page44.tif source=R065970014US00-CASI-OMJ#page45.tif source=R065970014US00-CASI-OMJ#page46.tif source=R065970014US00-CASI-OMJ#page47.tif

PATENT REEL: 030642 FRAME: 0716



PATENT REEL: 030642 FRAME: 0717

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 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,341, bearing Attorney Docket No. R0659.70014US00, and entitled NEUTRAL NANOTRANSPORTERS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee:
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation:
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

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

Attorney Docket No. R0659.70014US00 2304105.1

Page 1 of 8

P.7.2012	Clarfol
Date Inventor:	Anastasia Khvorova
Address:	10 Rocklawn Road
	Westborough, MA 01581
Citizenship:	US
personally appeared Anastasia Khvorova identification, which were MAINER ONE [, before me, the undersigned notary public, _, proved to me through satisfactory evidence of
to be the person who signed the preceding or attached or	
to me that the contents of the document are truthful and	
and belief and acknowledged to me that (he) (she) signe	a it voluntarily for its stated purpose.
SEAL Notaly Public	

JOHN J. O'NEIL, JR.

Notary Public. Commonwealth of Massachusetts
My Commission Expires December 28. 2018

My commission expires:

	<u></u>		
Date	Inventor:	William Salomon	
	Address:	210 Mountain Street East	
		Apt. 278	
		Worcester, Massachusetts 01606	
	Ciaire a un a la inc		
	Citizenship:	US	
STATE/COMMONWEAR	LTH OF		
COUNTY OF	:		
On this	day of,,	, before me, the undersigned notary pu	blic,
personally appeared _		, proved to me through satisfactory evider	
identification, which were			
to be the person who sig	ned the preceding or attached o	document in my presence and swore or affi	rmed
to me that the contents of	of the document are truthful and	accurate to the best of (his) (her) knowledge	ge
		ed it voluntarily for its stated purpose.	•
SEAL			
	Notary Public		
Marian and the state of the sta			
My commission expi	res:		

Date		Inventor:	Joanne Kamens
		Address:	21 Wessex Road
			Newton, MA 02459
		Citizenship:	US ·
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared	Joani	ne Kamens	, before the, the undersigned hotary public, _, proved to me through satisfactory evidence of
identification, which we			_, provod to the through satisfactory evidence of
to be the person who s	signed the pre	ceding 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.
OFAL			
SEAL			
	ľ	Notary Public	
My commission ex	pires:		

Date		Dmitry Samarsky
Date		•
	Address:	15 Wayside Road
		Westborough, MA 01581
	Citizenship:	US
STATE/COMMONWEAL	TH OF	
COUNTY OF		
On this c	lay of,,	, before me, the undersigned notary public,
		, proved to me through satisfactory evidence of
identification, which were		
to be the person who sig	ned the preceding or attached o	document in my presence and swore or affirmed
to me that the contents o	f the document are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowled	lged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		·
	Notary Public	

Page 5 of 8

D-1-			
Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared			_, proved to me through satisfactory evidence of
identification, which w			
to be the person who:	signed the		document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to	me that (he) (she) signe	ed it voluntarily for its stated purpose.
CEAL			
SEAL	=	Note: Dill'	
		Notary Public	
My commission ex	pires:		

Page 6 of 8

Date		lm, .a.m.t.a	NA:- - NA:
Jale		Inventor:	Michelle Miller
		Address:	1302 Village Road East
			Norwood, Massachusetts 02062
		Citizenship:	US
STATE/COMMONWE	ALTH OF	-	
COUNTY OF		<u> </u>	
See all to			
On this	_ day of		, before me, the undersigned notary public,
ersonally appeared		Michelle Miller	_, proved to me through satisfactory evidence of
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be the person who			document in my presence and swore or affirmed
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o be the person who some that the contents	s of the d	ocument are truthful and	accurate to the best of (his) (her) knowledge
o be the person who some that the contents	s of the d	ocument are truthful and	accurate to the best of (his) (her) knowledge
o be the person who so o me that the contents and belief and acknow	s of the d	ocument are truthful and	accurate to the best of (his) (her) knowledge
o be the person who so o me that the contents and belief and acknow	s of the d	ocument are truthful and o me that (he) (she) signe	accurate to the best of (his) (her) knowledge

Date	Inventor:	Karen G. Bulock
	Address:	44 Park Street
		Mendon, MA 01756
	Citizenship:	US
STATE/COMMONWEA	ALTH OF	
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	re	
to be the person who si	igned 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		
OLAL	Notary Public	
My commission exp	pires:	

Page 8 of 8

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 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,341, bearing Attorney Docket No. R0659.70014US00, and entitled NEUTRAL NANOTRANSPORTERS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

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

Attorney Docket No. R0659.70014US00 2304105.1

Page 1 of 8

Data			A
Date		inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	_ day of	, , , , , , , , , , , , , , , , , , ,	, before me, the undersigned notary public,
			_, proved to me through satisfactory evidence of
identification, which w	ere		
to be the person who	signed the prece	eding or attached o	document in my presence and swore or affirmed
to me that the content	s of the docume	ent are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me th	nat (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
SEAL	N	otary Public	
	14	·	
My commission ex	pires:		

Page 2 of 8

1 ,	
8/7/2012	IMIN The
Date Inventor:	William Salomon
Address:	210 Mountain Street East
	Apt. 278
	Worcester, Massachusetts 01606
Citizenship:	US
STATE/COMMONWEALTH OF Massachu	isetts
COUNTY OF Worrester:	
ath a	ς _μ .
	2, before me, the undersigned notary public,
personally appeared William Salomon	_, proved to me through satisfactory evidence of
identification, which were	cense
to be the person who signed the preceding or attached of	
to me that the contents of the document are truthful and and belief and acknowledged to me that (he) (she) signed	, , , ,
and belief and acknowledged to the that (he) (she) signe	on it voluntarily for its stated purpose.
SEAL Rue P. We	lcL
Notary Public	<u> </u>
My commission expires: $4/20/18$	

Date		Inventor:	Joanne Kamens
		Address:	21 Wessex Road
			Newton, MA 02459
		Citizenship:	US
STATE/COMMONWE	AI TH OF		
COUNTY OF			
On this	day of		, before me, the undersigned notary public,
personally appeared	Joann	ne Kamens	_, proved to me through satisfactory evidence of
dentification, which w	ere		
	-	-	document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknov	vledged to me	that (he) (she) signe	ed it voluntarily for its stated purpose.
CEAL			
SEAL		Matan, Dublia	
	ľ	Notary Public	
My commission ex	xpires:		

Page 4 of 8

Date		Inventor:	Dmitry Samarsky
		Address:	15 Wayside Road
			Westborough, MA 01581
		Citizenship:	us
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STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared		itry Samarsky	, proved to me through satisfactory evidence of
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to be the person who	signed the p	receding or attached of	document in my presence and swore or affirmed
to me that the content	s of the doc	ument are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	/ledged to m	ne that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
SLAL		Notary Public	 -
My commission ex	pires:		

Page 5 of 8

Date		Inventor	Tod M. Woolf
Dale			
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
	_ day of		, before me, the undersigned notary public,
personally appeared	*	Tod M. Woolf	_, proved to me through satisfactory evidence of
identification, which w			
	_	· ·	document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to	me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
OLAL	***************************************	Notary Public	<u> </u>
		140taly 1 ubile	
My commission ex	pires:		

Page 6 of 8

Date		Inventor:	Michelle Miller
		Address:	1302 Village Road East
			Norwood, Massachusetts 02062
		Citizenship:	US
STATE/COMMONWEA	LTH OF	· · · · · · · · · · · · · · · · · · ·	
COUNTY OF			
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Michel	le Miller	_, proved to me through satisfactory evidence of
identification, which we	re		
to be the person who si	gned the prece	ding or attached o	document in my presence and swore or affirmed
to me that the contents	of the documer	nt are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to me tha	at (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
OE/IE	No	tary Public	
My commission exp	.i.a.a.		

Date		Inventor:	Karen G. Bulock
		Address:	44 Park Street
			Mendon, MA 01756
	C	Citizenship:	US
STATE/COMMONWE	ALTH OF		· · · · · · · · · · · · · · · · · · ·
COUNTY OF			
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Karen G. Buld	ock	_, proved to me through satisfactory evidence of
identification, which we	re		
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Page 8 of 8

ASSIGNMENT

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- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

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

Attorney Docket No. R0659.70014US00 2304105.1

Page 1 of 8

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		*	
On this	day of		
			, before me, the undersigned notary public,, 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
			ed it voluntarily for its stated purpose.
OFAL			
SEAL	Nata	m . D. deli e	
	Notai	ry Public	
My commission ex	pires:		

Page 2 of 8

Date	Inventor:	William Salomon
	Address:	210 Mountain Street East
		Apt. 278
		Worcester, Massachusetts 01606
	Citizenship:	US
	,	
STATE/COMMONWEA	ALTH OF	
COUNTY OF	:	
	<i>1</i> 10	
On this	day of,	, before me, the undersigned notary public,
personally appeared		_, proved to me through satisfactory evidence of
identification, which we		
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowle	eaged to me that (ne) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission exp	pires:	

Page 3 of 8

8/6/2012	An Kaneun
Date / Inventor	or: Joanne Kamens
Addres	s: 21 Wessex Road
	Newton, MA 02459
Citizenshi	p: US

STATE/COMMONWEAL	
COUNTY OF Midd	llesex :
On this c personally appeared	lay of August, before me, the undersigned notary public, Joanne Kamens, proved to me through satisfactory evidence of
· · · · · · ·	Massachusetts Oriver's License
to be the person who sig	ned the preceding or attached document in my presence and swore or affirmed
to me that the contents o	f the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowled	dged to me that (hexister) signed it voluntarily for its stated purpose. MAURA L. TUCKER NOTARY PUBLIC My Commission Expire My Commission Expires
SEAL	My Commission Expires on October 26, 2018
-	Notary Public
My commission expir	es: October 26, 2018

Date		Inventor:	Dmitry Samarsky
		Address:	15 Wayside Road
			Westborough, MA 01581
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	_ day of	, ,	, before me, the undersigned notary public,
personally appeared	Dmitry Sama	arsky	_, proved to me through satisfactory evidence of
identification, which w	<u> </u>		
•			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me that (he	e) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notary	Public	·
My commission ex	pires:		

Page 5 of 8

Dete			T 111 111 11
Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
	- AL TIL OF		
STATE/COMMONWE	ALTH OF		
COUNTY OF		<u> </u>	
-			
On this	_ day of		, before me, the undersigned notary public,
On thispersonally appeared	_ day of		, before me, the undersigned notary public, _, proved to me through satisfactory evidence of
personally appeared identification, which w	ere	Tod M. Woolf	
personally appeared identification, which w to be the person who	eresigned the	Tod M. Woolf preceding or attached of	_, proved to me through satisfactory evidence of,
personally appeared identification, which w to be the person who to me that the content	ere signed the	Tod M. Woolf preceding or attached occument are truthful and	_, proved to me through satisfactory evidence of, document in my presence and swore or affirmed
personally appeared identification, which w to be the person who to me that the content	ere signed the	Tod M. Woolf preceding or attached occument are truthful and	_, proved to me through satisfactory evidence of, document in my presence and swore or affirmed accurate to the best of (his) (her) knowledge
personally appeared identification, which w to be the person who to me that the content and belief and acknow	ere signed the	Tod M. Woolf preceding or attached occument are truthful and	_, proved to me through satisfactory evidence of, document in my presence and swore or affirmed accurate to the best of (his) (her) knowledge
personally appeared identification, which w to be the person who to me that the content	ere signed the	Tod M. Woolf e preceding or attached ocument are truthful and me that (he) (she) signs	_, proved to me through satisfactory evidence of, document in my presence and swore or affirmed accurate to the best of (his) (her) knowledge
personally appeared identification, which w to be the person who to me that the content and belief and acknow	ere signed the	Tod M. Woolf preceding or attached occument are truthful and	_, proved to me through satisfactory evidence of, document in my presence and swore or affirmed accurate to the best of (his) (her) knowledge

Page 6 of 8

Date		Inventor:	Michelle Miller
		Address:	1302 Village Road East
			Norwood, Massachusetts 02062
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	_ day of	, , , , , , , , , , , , , , , , , , , ,	, before me, the undersigned notary public,
personally appeared		Michelle Miller	, proved to me through satisfactory evidence of
identification, which we	ere		
to be the person who	signed th	e preceding or attached o	document in my presence and swore or affirmed
to me that the contents	s of the d	ocument are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to	o me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
		Notary Public	······
My commission ex	pires:		

Page 7 of 8

Date		Inventor:	Karen G. Bulock
		Address:	44 Park Street
			Mendon, MA 01756
		Citizenship:	US
STATE/COMMONWE	ALTH OF _		
COUNTY OF		•	
On this	day of	·	, before me, the undersigned notary public,
personally appeared	Kare		_, proved to me through satisfactory evidence of
identification, which we	ere		
			document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me	that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
		Notary Public	
My commission exp	oires:		

Page 8 of 8

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 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,341, bearing Attorney Docket No. R0659.70014US00, and entitled NEUTRAL NANOTRANSPORTERS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent:
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

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

Attorney Docket No. R0659.70014US00 2304105.1

Page 1 of 8

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
STATE/COMMONWE	AI TH OF		
COUNTY OF	, LIII OI	•	
On this	_ day of		, before me, the undersigned notary public,
personally appeared	Anastas	sia Khvorova	_, proved to me through satisfactory evidence of
identification, which we	ere		,
to be the person who	signed the pred	ceding or attached	document in my presence and swore or affirmed
to me that the contents	s of the docum	ent are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me t	hat (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL	•		
	V	Notary Public	
My commission ex			

Date	Inventor:	William Salomon
	Address:	210 Mountain Street East
		Apt. 278
		Worcester, Massachusetts 01606
	Citizenship:	•
	O.IZo.I.O.II.PT	
STATE/COMMONWEAL	_TH OF	
On this	day of,	, before me, the undersigned notary public,
personally appeared _		_, 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	aged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
	-	
My commission expi	res:	

Vessex Road
efore me, the undersigned notary public, red to me through satisfactory evidence of
red to me inrough satisfactory evidence of
ent in my presence and swore or affirmed
ate to the best of (his) (her) knowledge
luntarily for its stated purpose.
vo

Page 4 of 8

Sep 04, 2017	D. Samais 11
Date Inventor:	
Address:	15 Wayside Road
	Westborough, MA 01581
Citizenship:	US
·	
STATE/COMMONWEALTH OF <u>Massachusetts</u> COUNTY OF <u>Worcester</u> :	<u> </u>
On this 4 day of September, 20 personally appeared Dmitry Samarsky	<u>i2.</u> , before me, the undersigned notary public, _, proved to me through satisfactory evidence of
identification, which were Mass. License	_, proved to me imough satisfactory evidence of
to be the person who signed the preceding or attached or	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	
SEAL Land Guzman	<u>n</u>
My commission expires: Mar. 14, 2019	

Date		Inventor:	Tod M. Woolf
		Address:	14 Babe Ruth Drive
			Sudbury, MA 01776-1942
		Citizenship:	US
STATE/COMMONWEA			
COUNTY OF			
On this	day of	,	, before me, the undersigned notary public,
***************************************		·	_, proved to me through satisfactory evidence of
identification, which wer			
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 do	ocument 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			
U		Notary Public	
M	•		
My commission exp	nes:		

Page 6 of 8

Date		Inventor:	Michelle Miller
		Address:	1302 Village Road East
			Norwood, Massachusetts 02062
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	day of	,	, before me, the undersigned notary public,
personally appeared		elle Miller	_, proved to me through satisfactory evidence of
identification, which we	ere		,
to be the person who s	signed the prec	eding or attached	document in my presence and swore or affirmed
to me that the contents	of the docume	ent are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me t	hat (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	N	Notary Public	·
My commission ex	pires:		

Date	Inventor:	Karen G. Bulock
		44 Park Street
		Mendon, MA 01756
	Citizenship:	US
STATE/COMMONWEAL	TH OF	
COUNTY OF	:	
On this	day of,,	, before me, the undersigned notary public,
personally appearedidentification, which were	Karen G. Bulock	, proved to me through satisfactory evidence of
		ocument in my presence and swore or affirmed
to me that the contents o	f the document are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowled	dged to me that (he) (she) signe	d it voluntarily for its stated purpose.
SEAL		
•	Notary Public	_
My commission expir	es:	

Page 8 of 8

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 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,341, bearing Attorney Docket No. R0659.70014US00, and entitled NEUTRAL NANOTRANSPORTERS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent. utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee:
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

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

Attorney Docket No. R0659.70014US00 2304105.1

Page 1 of 8

Date	Inventor	: Anastasia Khvorova
	Address	: 10 Rocklawn Road
		Westborough, MA 01581
	Citizenship	: US
STATE/COMMONWE	ALTH OF	
COUNTY OF	:	
On this	day of,	, before me, the undersigned notary public,
personally appeared	Anastasia Khvorova	, 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	s of the document are truthful an	d accurate to the best of (his) (her) knowledge
and belief and acknow	vledged to me that (he) (she) sig	ned it voluntarily for its stated purpose.
CEAL		
SEAL	Notary Public	
My commission ex	xpires:	

Attorney Docket No. R0659.70014US00 2304105.1

Page 2 of 8

Date	Inventor:	William Salomon
Date		
	Address:	210 Mountain Street East
		Apt. 278
		Worcester, Massachusetts 01606
	Citizenship:	US
STATE/COMMONWE	ALTH OF	,
COUNTY OF	•	
	~	
On this	- · · 	, before me, the undersigned notary public,
personally appeared	William Salomon	_, proved to me through satisfactory evidence of
identification, which we		de la companya de la
•		document in my presence and swore or affirmed
		l accurate to the best of (his) (her) knowledge
and belief and acknow	rleaged to me that (ne) (sne) sign	ed it voluntarily for its stated purpose.
SEAL		
SEAL	Noton, Dublic	
	Notary Public	
My commission ex	pires:	

Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
STATE/COMMONWE	ALTH OF	
COUNTY OF	:	
On this		, before me, the undersigned notary public,
		, 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 acknow	ledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL		
OL/IL	Notary Public	
	-	
My commission ex	pires:	

Date		Inventor:	Dmitry Samarsky
_ 			15 Wayside Road
		71007033.	Westborough, MA 01581
		Otalia a carallat a c	-
		Citizenship:	05
STATE/COMMONWE	ALTH OF		****
COUNTY OF			
On this	day of	•	, before me, the undersigned notary public,
			_, proved to me through satisfactory evidence of
identification, which w			,
to be the person who	signed the precedir	ng or attached o	document in my presence and swore or affirmed
to me that the content	s of the document a	are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	vledged to me that ((he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	Notai	ry Public	
M			
My commission ex	(Dires:		

Attorney Docket No. R0659.70014US00 2304105.1

Page 5 of 8

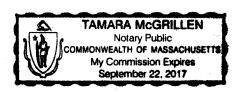
Date

Inventor: Tod M. Woolf

Address: 14 Babe Ruth Drive

Sudbury, MA 01776-1942

Citizenship: US



Date		Inventor:	Michelle Miller
		Address:	1302 Village Road East
			Norwood, Massachusetts 02062
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF		_:	
On this	day of		hafara ma the undersigned natary public
			, before me, the undersigned notary public,
		iller	_, proved to me through satisfactory evidence of
identification, which we			,
· · · · · · · · · · · · · · · · · · ·			document in my presence and swore or affirmed
to me that the contents	s of the document ar	e truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me that (h	ne) (she) signo	ed it voluntarily for its stated purpose.
SEAL			
	Notary	Public	
My commission ex	pires:		

Page 7 of 8

Date Inventor:	Karen G. Bulock
Address:	44 Park Street
	Mendon, MA 01756
Citizenship:	US
STATE/COMMONWEALTH OF	
COUNTY 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	
to me that the contents of the document are truthful and	
and belief and acknowledged to me that (he) (she) signo	ed it voluntarily for its stated purpose.
SEAL	
Notary Public	
. Total y Fubility	
My commission expires:	

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 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,341, bearing Attorney Docket No. R0659,70014US00, and entitled NEUTRAL NANOTRANSPORTERS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

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

PATENT REEL: 030642 FRAME: 0758

Page 1 of 8

Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	_
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	_ day of	<u>,</u> ,	, before me, the undersigned notary public,
personally appeared	Anastasia K	hvorova	_, proved to me through satisfactory evidence of
identification, which we	ere		
to be the person who	signed the precedin	g or attached	document in my presence and swore or affirmed
to me that the contents	s of the document a	are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL			resource de differentiale
	Notar	y Public	
Mv commission ex	pires:		

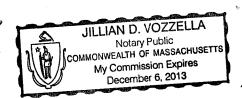
	····		
Date		Inventor:	William Salomon
		Address:	210 Mountain Street East
			Apt. 278
			Worcester, Massachusetts 01606
	Cir	tizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF			
	نونه		
On this	_ day of	,	, before me, the undersigned notary public,
personally appeared	William Salomo	on ·	_, proved to me through satisfactory evidence of
identification, which we			
to be the person who s	signed the preceding or	attached o	document in my presence and swore or affirmed
to me that the contents	s of the document are tr	uthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me that (he)	(she) signe	ed it voluntarily for its stated purpose.
SEAL			
SEAL	Noton D	hlio	
	Notary Pu	IDIIC	
My commission ex	pires:		
<u>.</u>	<u> </u>		

Date	Inventor:	Joanne Kamens
	Address:	21 Wessex Road
		Newton, MA 02459
	Citizenship:	US
STATE/COMMONWEA	LTH OF	
COUNTY OF	:	
		before me, the undersigned notary public,
personally appeared _	Joanne Kamens	_, proved to me through satisfactory evidence of
identification, which wer		decument in my processes and swere or offirmed
		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:	

Date	Inventor:	Dmitry Samarsky
	Address:	15 Wayside Road
		Westborough, MA 01581
	Citizenship:	US
STATE/COMMONWEAL	.TH OF	
COUNTY OF	•	
On this c		, before me, the undersigned notary public,
personally appeared		_, proved to me through satisfactory evidence of
identification, which were		de compart in morange and quare or offirmed
		document in my presence and swore or affirmed
		accurate to the best of (his) (her) knowledge
and belief and acknowled	dged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission expir	res:	

Date Inventor:	Tod M. Woolf
Address:	14 Babe Ruth Drive
	Sudbury, MA 01776-1942
Citizenship:	US
STATE/COMMONWEALTH OF	
COUNTY OF:	
	, before me, the undersigned notary public,
personally appeared Tod M. Woolfidentification, which were	_, proved to me through satisfactory evidence of
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	
and belief and acknowledged to me that (he) (she) sign	
SEAL	
Notary Public	
My commission expires:	

2/22/2013	Michelle 4	Miller
Date / Inventor:	Michelle Miller	
Address:	1302 Village Road East	33 Lexington Drive
	Norwood, Massachusetts	: 02062 East Walpole
Citizenship:	US	mtm 2/22/2013
STATE/COMMONWEALTH OFMassachusett COUNTY OFNorfolk:		
On this 22 nd day of February, 20	1.3 , before me, the under	signed notary public,
	_, proved to me through sa	atistactory evidence of
to be the person who signed the preceding or attached to me that the contents of the document are truthful and and belief and acknowledged to me that (he) (she) sign	I accurate to the best of (hi	s) (her) knowledge
SEAL Julian Joseph Notary Public	la	



My commission expires: 12/6/13

, ma 0203:

Date		Inventor:	Karen G. Bulock
		Address:	44 Park Street
			Mendon, MA 01756
		Citizenship:	US
STATE/COMMONWE	ALTH OF		
COUNTY OF	·	•	
On this			, before me, the undersigned notary public,
personally appeared	Karen G. I	Bulock	_, 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.
OFAL			
SEAL	NI. s	. D. J. P.	
	Notai	ry Public	
My commission ex	pires:		

ASSIGNMENT

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

- Sell, assign and transfer to RXi Pharmaceuticals Corporation, a Delaware 1. Corporation, having a place of business at 60 Prescott Street; Worcester, Massachusetts 01605, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on March 22, 2011 under No. 13/120,341, bearing Attorney Docket No. R0659.70014US00, and entitled NEUTRAL NANOTRANSPORTERS, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent:
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

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

Attorney Docket No. R0659.70014US00 2304105.1

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Date		Inventor:	Anastasia Khvorova
		Address:	10 Rocklawn Road
			Westborough, MA 01581
		Citizenship:	US
STATE/COMMONWEA	LTH OF		
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared			, proved to me through satisfactory evidence of
dentification, which wer			
o be the person who sig	gned the pred	ceding or attached o	document in my presence and swore or affirmed
			accurate to the best of (his) (her) knowledge
and belief and acknowle	dged to me t	that (he) (she) signe	ed it voluntarily for its stated purpose.
SEAL			
	<u>N</u>	Notary Public	
My commission expi	res:		

Date	Inventor	r: William Salomon
	Address	s: 210 Mountain Street East
		Apt. 278
		Worcester, Massachusetts 01606
•	Citizenship	o: US
STATE/COMMONWE	ALTH OF	
	ALIH OF	
COUNTY OF	;	
On this	day of ,	, before me, the undersigned notary public,
		, proved to me through satisfactory evidence of
dentification, which we	ere	
o be the person who	signed the preceding or attached	d document in my presence and swore or affirmed
o me that the contents	s of the document are truthful an	nd accurate to the best of (his) (her) knowledge
and belief and acknow	rledged to me that (he) (she) sign	ned it voluntarily for its stated purpose.
SEAL		
	Notary Public	
My commission ex	pires:	
,	F	

Date Inventor:	Joanne Kamens
Address:	21 Wessex Road
	Newton, MA 02459
Citizenship:	US
STATE/COMMONWEALTH OF	
COUNTY OF:	
On this day of , personally appeared Joanne Kamens	, before me, the undersigned notary public, , proved to me through satisfactory evidence of
identification, which were	_, proved to the through satisfactory evidence of
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	
and belief and acknowledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL Note: Dublin	
Notary Public	
My commission expires:	

Date		Inventor:	Dmitry Samarsky
		Address:	15 Wayside Road
			Westborough, MA 01581
		Citizenship:	US
,			
STATE/COMMONWE	ALTH OF		
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared			, proved to me through satisfactory evidence of
dentification, which w			
			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			
	Nota	ary Public	
My commission ex	pires:	All Market Market and Commence of the Commence	

Tod M. Woolf 14 Babe Ruth Drive Sudbury, MA 01776-1942 US
Sudbury, MA 01776-1942
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US
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, before me, the undersigned notary public,
_, 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.
<u> </u>

Date		Inventor	r: Michelle Miller
		Address	s: 1302 Village Road East
			Norwood, Massachusetts 02062
		Citizenship	o: US
STATE/COMMONV	VEALTH OF		1501
COUNTY OF		:	
On this	day of		, before me, the undersigned notary public,
personally appeared		Michelle Miller	, proved to me through satisfactory evidence of
	wore		<u> </u>
dentification, which	Wele		
*		preceding or attached	d document in my presence and swore or affirmed
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Ju	dy	αφ.	2012
Data		,	

Inventor: Karen

Address: 44 Park Street

Mendon, MA 01756

Citizenship: US

STATE/COMMC	NWEALTH OF _	Massac	husetts
COUNTY OF	Norcestar	: "ע	

personally appeared

day of

, before me, the undersigned notary public,

identification, which were

, proved to me through satisfactory evidence of

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 ≌uplic COMMONWEALTH OF MASSACHUSETTS My Commission Expires September 22, 2017

Attorney Docket No. R0659.70014US00 2304105.1

RECORDED: 06/19/2013

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