

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:  | NEW ASSIGNMENT                   |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
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| NATURE OF CONVEYANCE:   | ASSIGNMENT                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| CONVEYING PARTY DATA  |                                  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Lyn Libertine</td> <td>11/05/2012</td> </tr> <tr> <td>Anastasia Khvorova</td> <td>11/15/2012</td> </tr> <tr> <td>William Salomon</td> <td>01/07/2013</td> </tr> <tr> <td>Joanne Kamens</td> <td>11/08/2012</td> </tr> <tr> <td>Dmitry Samarsky</td> <td>01/03/2013</td> </tr> <tr> <td>Tod M. Woolf</td> <td>12/12/2012</td> </tr> <tr> <td>James Cardia</td> <td>11/05/2012</td> </tr> </tbody> </table> |                                  | Name          | Execution Date | Lyn Libertine       | 11/05/2012 | Anastasia Khvorova | 11/15/2012 | William Salomon | 01/07/2013 | Joanne Kamens | 11/08/2012 | Dmitry Samarsky | 01/03/2013 | Tod M. Woolf | 12/12/2012 | James Cardia | 11/05/2012 |
| Name  | Execution Date                   |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Lyn Libertine   | 11/05/2012                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Anastasia Khvorova  | 11/15/2012                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| William Salomon   | 01/07/2013                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Joanne Kamens   | 11/08/2012                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Dmitry Samarsky   | 01/03/2013                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Tod M. Woolf  | 12/12/2012                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| James Cardia  | 11/05/2012                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| RECEIVING PARTY DATA  |                                  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Name:   | RXi Pharmaceuticals Corporation  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Street Address:   | 1500 West Park Drive, Suite 210  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| City:   | Westborough                      |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| State/Country:  | MASSACHUSETTS                    |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Postal Code:  | 01581                            |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| PROPERTY NUMBERS Total: 1   |                                  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13636748</td> </tr> </tbody> </table>   |                                  | Property Type | Number         | Application Number: | 13636748   |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Property Type   | Number                           |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Application Number:   | 13636748                         |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| CORRESPONDENCE DATA   |                                  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| Fax Number:   | 6176468646                       |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |                                  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |
| 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:   | R0659.70019US02                  |               |                |                     |            |                    |            |                 |            |               |            |                 |            |              |            |              |            |

OP \$40.00 13636748

|                    |                     |
|--------------------|---------------------|
| NAME OF SUBMITTER: | Oona M. Johnstone   |
| Signature:         | /Oona M. Johnstone/ |
| Date:              | 06/17/2013          |

**Total Attachments: 56**

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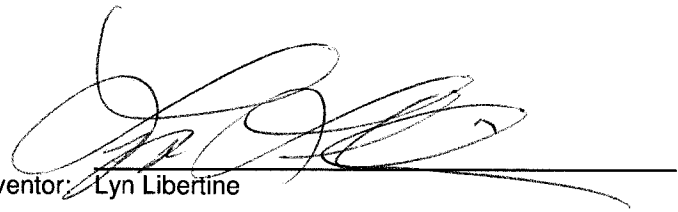
## ASSIGNMENT

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. **13/636,748**, bearing Attorney Docket No. **R0659.70019US02**, and entitled **RNA INTERFERENCE IN OCULAR 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.


05 Nov 2012  
Date



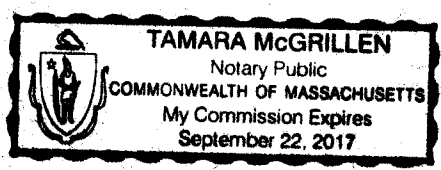
Inventor: Lyn Libertine  
Address: 61 Nixon Road  
Framingham, MA 01701  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF Worcester :

On this 5<sup>th</sup> day of NOV, 2012, before me, the undersigned notary public, personally appeared Lyn Libertine, proved to me through satisfactory evidence of identification, which were 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   
Notary Public

My commission expires: 9-22-17



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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_



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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_

\_\_\_\_\_  
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 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.

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\_\_\_\_\_  
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My commission expires: \_\_\_\_\_

## 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. **13/636,748**, bearing Attorney Docket No. **R0659.70019US02**, and entitled **RNA INTERFERENCE IN OCULAR 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.

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

11.15, 12  
Date

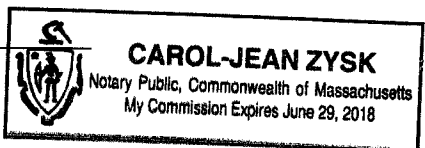
[Signature]  
Inventor: Anastasia Khvorova  
Address: 10 Rocklawn Road  
Westborough, MA 01581  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF Worcester :

On this 15 day of November, 2012, before me, the undersigned notary public, personally appeared Anastasia Khvorova, proved to me through satisfactory evidence of identification, which were MADL, 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 [Signature]  
Notary Public

My commission expires: \_\_\_\_\_



\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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.

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Inventor: Dmitry Samarsky

Address: 15 Wayside Road

Westborough, MA 01581

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Inventor: Tod M. Woolf  
Address: 14 Babe Ruth Drive  
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COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF \_\_\_\_\_ :

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## 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. **13/636,748**, bearing Attorney Docket No. **R0659.70019US02**, and entitled **RNA INTERFERENCE IN OCULAR 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.

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Anastasia Khvorova

Address: 10 Rocklawn Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF \_\_\_\_\_ :

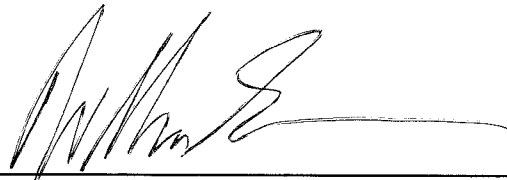
On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_ Anastasia Khvorova \_\_\_\_\_, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

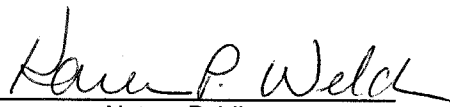
My commission expires: \_\_\_\_\_

1/7/2013  
Date

  
Inventor: William Salomon  
Address: 2 Farrar Avenue  
Apt. 2  
Worcester, Massachusetts 01604  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF Worcester :

On this 7<sup>th</sup> day of January, 2013, before me, the undersigned notary public, personally appeared William Salomon, proved to me through satisfactory evidence of identification, which were 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   
Notary Public

My commission expires: April 20, 2018

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_



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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## 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. **13/636,748**, bearing Attorney Docket No. **R0659.70019US02**, and entitled **RNA INTERFERENCE IN OCULAR 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.

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

11/8/12  
Date

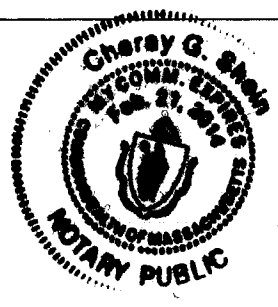
*Joanne Kamens*  
Inventor: Joanne Kamens  
Address: 21 Wessex Road  
Newton, MA 02459  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF Middlesex :

On this 8th day of November, 2012, before me, the undersigned notary public, personally appeared Joanne Kamens, proved to me through satisfactory evidence of identification, which were personal knowledge, 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  
*[Signature]*  
Notary Public

My commission expires: \_\_\_\_\_





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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## ASSIGNMENT

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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. **13/636,748**, bearing Attorney Docket No. **R0659.70019US02**, and entitled **RNA INTERFERENCE IN OCULAR 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.

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_



Date Jan 03, 2013

Inventor: D. Samarsky  
Address: 15 Wayside Road  
Westborough, MA 01581  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF Worcester :

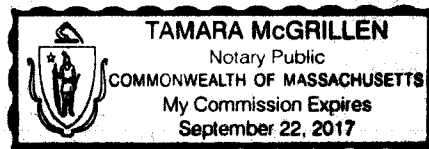
On this 3<sup>rd</sup> day of January, 2013, before me, the undersigned notary public, personally appeared Dmitry Samarsky, proved to me through satisfactory evidence of identification, which were US Passport, to be the person who signed the preceding for attached document in my presence and swore or 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

Tamara McGrillen  
Notary Public

My commission expires:

9-22-17



\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## 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. **13/636,748**, bearing Attorney Docket No. **R0659.70019US02**, and entitled **RNA INTERFERENCE IN OCULAR 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.

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_



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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

Date 12/12/12

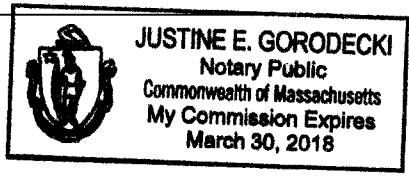
Inventor: Tod M. Woolf  
Address: 14 Babe Ruth Drive  
Sudbury, MA 01776-1942  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF Middlesex :

On this 12 day of December, 2012, before me, the undersigned notary public, personally appeared Tod M. Woolf, proved to me through satisfactory evidence of identification, which were driver 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 Justine E. Gorodecki  
Notary Public

My commission expires:



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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

## 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. **13/636,748**, bearing Attorney Docket No. **R0659.70019US02**, and entitled **RNA INTERFERENCE IN OCULAR 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.

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_



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

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
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 \_\_\_\_\_, 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: \_\_\_\_\_

Date 11/5/2012

Inventor: James Cardia  
Address: 11 Bacon Street  
Franklin, MA 02038  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF Worcester :

On this 5<sup>th</sup> day of Nov, 2012, before me, the undersigned notary public,  
personally appeared James Cardia, proved to me through satisfactory evidence of  
identification, which were 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

Tamara McGrillen  
Notary Public

My commission expires: 9-22-17

