

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>CARLO M. CROCE</td> <td>11/05/2005</td> </tr> <tr> <td>CHANG-GONG LIU</td> <td>11/07/2005</td> </tr> <tr> <td>GEORGE A. CALIN</td> <td>11/07/2005</td> </tr> <tr> <td>CINZIA SEVIGNANI</td> <td>11/04/2005</td> </tr> </tbody> </table>		Name	Execution Date	CARLO M. CROCE	11/05/2005	CHANG-GONG LIU	11/07/2005	GEORGE A. CALIN	11/07/2005	CINZIA SEVIGNANI	11/04/2005
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CARLO M. CROCE	11/05/2005										
CHANG-GONG LIU	11/07/2005										
GEORGE A. CALIN	11/07/2005										
CINZIA SEVIGNANI	11/04/2005										
RECEIVING PARTY DATA											
Name:	THOMAS JEFFERSON UNIVERSITY										
Street Address:	1020 LOCUST STREET										
Internal Address:	SUITE M34										
City:	PHILADELPHIA										
State/Country:	PENNSYLVANIA										
Postal Code:	19107-6799										
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>13972759</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13972759						
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Application Number:	13972759										
CORRESPONDENCE DATA											
Fax Number:	(978)341-0136										
Phone:	978-341-0036										
Email:	anne.amison@hbsr.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
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Address Line 2:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C.										
Address Line 4:	CONCORD, MASSACHUSETTS 01742-9133										
ATTORNEY DOCKET NUMBER:	3589.1018-015										
NAME OF SUBMITTER:	ANNE AMISON										

Signature:	/Anne Amison/
Date:	01/22/2014
Total Attachments: 8 source=35891018015Asg#page1.tif source=35891018015Asg#page2.tif source=35891018015Asg#page3.tif source=35891018015Asg#page4.tif source=35891018015Asg#page5.tif source=35891018015Asg#page6.tif source=35891018015Asg#page7.tif source=35891018015Asg#page8.tif	

JointASSIGNMENT

WHEREAS, we, **Carlo M. Croce, Chang-Gong Liu, George A. Calin and Cinzia Sevignani**, have invented a certain improvement in **Diagnosis and Treatment of Cancers with MicroRNA Located in or Near Cancer-Associated Chromosomal Features** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. **11/194,055**, filed **July 29, 2005**;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, **Thomas Jefferson University** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Pennsylvania**, and having a usual place of business at **1015 Walnut Street, Suite 705, Philadelphia, Pennsylvania 19107** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: [Handwritten Signature]
Carlo M. Croce

State/Commonwealth of OHIO
County of Franklin

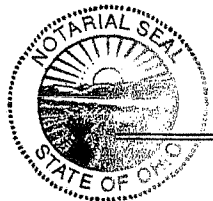
On this 5th day of NOVEMBER, 2005, before me, the undersigned notary public, personally appeared **Carlo M. Croce**,

personally known to me, or
 proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

[Handwritten Signature] Notary Public
Sharon R Palko (print name)
My Commission expires 06/06/07



SHARON R. PALKO
Notary Public, State of Ohio
My Commission Expires 06-06-07

Inventor's Signature: Chang-Gong Liu

Chang-Gong Liu

State/Commonwealth

of OHIO

County of FRANKLIN

On this 7th day of NOVEMBER, 2005, before me, the undersigned notary public, personally appeared **Chang-Gong Liu**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Sharon R. Palko

Notary Public

SHARON R. PALKO
Notary Public, State of Ohio
My Commission Expires 06-06-07

(print name)

My Commission expires 06/06/07

Inventor's Signature: George A. Calin

George A. Calin

State/Commonwealth

of OHIO

County of FRANKLIN

On this 7th day of NOVEMBER, 2005, before me, the undersigned notary public, personally appeared **George A. Calin**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Sharon R. Palko

Notary Public

SHARON R. PALKO
Notary Public, State of Ohio
My Commission Expires 06-06-07

(print name)

My Commission expires 06/06/07

Inventor's Signature: _____

Cinzia Sevigani

State/Commonwealth
of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Cinzia Sevigani**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

_____ to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)

My Commission expires ____ / ____ / ____

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AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____
Carlo M. Croce

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Carlo M. Croce**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____

Chang-Gong Liu

State/Commonwealth _____

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Chang-Gong Liu**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

_____ to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

George A. Calin

State/Commonwealth _____

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **George A. Calin**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

_____ to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

X Inventor's Signature: Cinzia Sevignani
Cinzia Sevignani

State/Commonwealth of Pennsylvania
County of Philadelphia

On this 4th day of November, 2005, before me, the undersigned notary public, personally appeared **Cinzia Sevignani**,

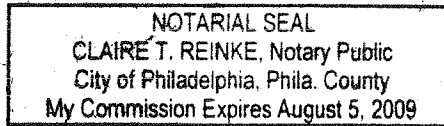
personally known to me, or

proved to me through satisfactory evidence of identification, which was

employee photo identification
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Claire T. Reinke Notary Public
(print name)

My Commission expires 1/ **COMMONWEALTH OF PENNSYLVANIA**



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