

## PATENT ASSIGNMENT

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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>Keio University</td> <td>07/05/2013</td> </tr> </tbody> </table>  |   | Name          | Execution Date | Keio University     | 07/05/2013                              |                   |                              |       |       |                |       |              |         |
| Name  | Execution Date                          |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| Keio University   | 07/05/2013                              |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| RECEIVING PARTY DATA  |   |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| <table border="1"> <tr> <td>Name:</td> <td>Takeru Zama</td> </tr> <tr> <td>Street Address:</td> <td>c/o School of Medicine, Keio University</td> </tr> <tr> <td>Internal Address:</td> <td>35 Shinanomachi, Shinjuku-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>1608582</td> </tr> </table>    |   | Name:         | Takeru Zama    | Street Address:     | c/o School of Medicine, Keio University | Internal Address: | 35 Shinanomachi, Shinjuku-ku | City: | Tokyo | State/Country: | JAPAN | Postal Code: | 1608582 |
| Name:   | Takeru Zama                             |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| Street Address:   | c/o School of Medicine, Keio University |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| Internal Address:   | 35 Shinanomachi, Shinjuku-ku            |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| City:   | Tokyo                                   |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| State/Country:  | JAPAN                                   |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| Postal Code:  | 1608582                                 |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| <table border="1"> <tr> <td>Name:</td> <td>Koichiro Saito</td> </tr> <tr> <td>Street Address:</td> <td>c/o School of Medicine, Keio University</td> </tr> <tr> <td>Internal Address:</td> <td>35 Shinanomachi, Shinjuku-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>1608582</td> </tr> </table> |   | Name:         | Koichiro Saito | Street Address:     | c/o School of Medicine, Keio University | Internal Address: | 35 Shinanomachi, Shinjuku-ku | City: | Tokyo | State/Country: | JAPAN | Postal Code: | 1608582 |
| Name:   | Koichiro Saito                          |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| Street Address:   | c/o School of Medicine, Keio University |               |                |                     |   |                   |                              |       |       |                |       |              |         |
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| State/Country:  | JAPAN                                   |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| Postal Code:  | 1608582                                 |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| 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>12996420</td> </tr> </tbody> </table>   |   | Property Type | Number         | Application Number: | 12996420                                |                   |                              |       |       |                |       |              |         |
| Property Type   | Number                                  |               |                |                     |   |                   |                              |       |       |                |       |              |         |
| Application Number:   | 12996420                                |               |                |                     |   |                   |                              |       |       |                |       |              |         |
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| NAME OF SUBMITTER:   | Susan Shen-Frattura   |
| Signature:   | /Susan Shen-Frattura/ |
| Date:  | 07/09/2013            |
| Total Attachments: 8<br>source=Zama_Saito_Assignment#page1.tif<br>source=Zama_Saito_Assignment#page2.tif<br>source=Zama_Saito_Assignment#page3.tif<br>source=Zama_Saito_Assignment#page4.tif<br>source=Zama_Saito_Assignment#page5.tif<br>source=Zama_Saito_Assignment#page6.tif<br>source=Zama_Saito_Assignment#page7.tif<br>source=Zama_Saito_Assignment#page8.tif |                       |

**ASSIGNMENT**

WHEREAS, Keio University, having a principal place of business at 15-45, Mita 2-chome, Minato-ku, Tokyo, Japan, 1088345 ("ASSIGNOR"), previously acquired by assignment from the below-named inventors, said assignment recorded in the United States Patent and Trademark Office on February 17, 2011 at Reel/Frame 025826/0770, the entire right, title and interest in, to and under said invention and in, to and under Letters Patent or similar legal protection obtained or to be obtained therefor in U.S. Patent Application Serial No. 12/996,420, filed on February 17, 2011, entitled "Diagnosis/Treatment Option for Head-And-Neck Tumor Using Micro-RNA as Biomarker."

WHEREAS, Takeru Zama, a citizen of Japan, with a correspondence address of c/o School of Medicine, Keio University, 35, Shinanomachi, Shinjuku-ku, Tokyo, 1608582, and Koichiro Saito, a citizen of Japan, with a correspondence address of c/o School of Medicine, Keio University, 35, Shinanomachi, Shinjuku-ku, Tokyo, 1608582, ("ASSIGNEES"), co-inventors of U.S. Patent Application Serial No. 12/996,420 with Akira Hirasawa, and Hideki Naganishi, are desirous of obtaining the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

**NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN**

Be it known that for valuable consideration by ASSIGNEES to ASSIGNOR, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto ASSIGNEES, their successors, legal representatives, and assigns, ASSIGNOR's full and exclusive right, title and interest to said discovery or invention, and any and all inventions described in the above-referenced application, in the United States and its territorial possessions

and in all foreign countries and to all Letters Patents or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application, or any continuation, division, renewal, substitute, reissue, or reexamination thereof, or any legal equivalent thereof in a foreign country, for the full term or terms for which the same may be granted, and the right to claim priority from the above-referenced application under the Patent Laws of the United States, the International Convention, or any other international agreement or domestic laws of any and all foreign countries.

ASSIGNOR hereby authorizes and requests the Director of the United States Patent and Trademark Office, and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patents on applications as aforesaid, to issue all such Letters Patents for said discovery or invention, and any and all inventions described in the above-referenced application, to the ASSIGNEES, as assignees of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEES, their successors, legal representatives and assigns, in accordance with the terms of this instrument.

ASSIGNOR hereby covenants that ASSIGNOR has full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

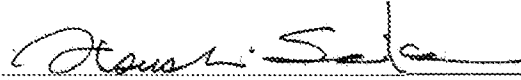
AND ASSIGNOR hereby further covenants and agrees that ASSIGNOR will communicate to the ASSIGNEES, their successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention, and any and all inventions described in the above-referenced application, and claim the benefits of the International Convention, and that it will, at any time, when called upon to do so by the ASSIGNEES, their successors, legal representatives, or assigns, communicate to the ASSIGNEES, their successors, legal representatives, or assigns, as the case may be, any facts known to it respecting said discovery or

invention, and any and all inventions described in the above-referenced application, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to said discovery or invention, and any and all inventions described in the above-referenced application, said applications and said Letters Patent in the ASSIGNEES, their successors, legal representatives and assigns, and that if reissues of said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of said applications, or any thereof, shall hereafter be desired by the ASSIGNEES, their successors, legal representatives, or assigns, ASSIGNOR will, at any time, when called up to do so by the ASSIGNEES, their successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEES, their successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery, and any and all inventions described in the above-referenced application, in all countries, and without further compensation, but at the expense of the ASSIGNEES, their successors, legal representatives and assigns.

IN TESTIMONY WHEREOF, we sign below with the date opposite our respective signatures.

ASSIGNOR: KEIO UNIVERSITY

Date: July 5, 2013



Name: Atsushi SEIKE  
Title: President

ASSIGNEE: TAKERU ZAMA

Date: \_\_\_\_\_

\_\_\_\_\_  
Name: Takeru Zama  
Title: Inventor

ASSIGNEE: KOICHIRO SAITO

Date: \_\_\_\_\_

\_\_\_\_\_  
Name: Koichiro Saito  
Title: Inventor

## ASSIGNMENT

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### **NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN**

Be it known that for valuable consideration by ASSIGNEES to ASSIGNOR, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto ASSIGNEES, their successors, legal representatives, and assigns, ASSIGNOR's full and exclusive right, title and interest to said discovery or invention, and any and all inventions described in the above-referenced application, in the United States and its territorial possessions

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and in all foreign countries and to all Letters Patents or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application, or any continuation, division, renewal, substitute, reissue, or reexamination thereof, or any legal equivalent thereof in a foreign country, for the full term or terms for which the same may be granted, and the right to claim priority from the above-referenced application under the Patent Laws of the United States, the International Convention, or any other international agreement or domestic laws of any and all foreign countries.

ASSIGNOR hereby authorizes and requests the Director of the United States Patent and Trademark Office, and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patents on applications as aforesaid, to issue all such Letters Patents for said discovery or invention, and any and all inventions described in the above-referenced application, to the ASSIGNEES, as assignees of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEES, their successors, legal representatives and assigns, in accordance with the terms of this instrument.

ASSIGNOR hereby covenants that ASSIGNOR has full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

AND ASSIGNOR hereby further covenants and agrees that ASSIGNOR will communicate to the ASSIGNEES, their successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention, and any and all inventions described in the above-referenced application, and claim the benefits of the International Convention, and that it will, at any time, when called upon to do so by the ASSIGNEES, their successors, legal representatives, or assigns, communicate to the ASSIGNEES, their successors, legal representatives, or assigns, as the case may be, any facts known to it respecting said discovery or



invention, and any and all inventions described in the above-referenced application, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to said discovery or invention, and any and all inventions described in the above-referenced application, said applications and said Letters Patent in the ASSIGNEES, their successors, legal representatives and assigns, and that if reissues of said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of said applications, or any thereof, shall hereafter be desired by the ASSIGNEES, their successors, legal representatives, or assigns, ASSIGNOR will, at any time, when called up to do so by the ASSIGNEES, their successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEES, their successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery, and any and all inventions described in the above-referenced application, in all countries, and without further compensation, but at the expense of the ASSIGNEES, their successors, legal representatives and assigns.

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ASSIGNOR: KEIO UNIVERSITY

Date: \_\_\_\_\_

\_\_\_\_\_  
Name: Atsushi SEIKE  
Title: President

ASSIGNEE: TAKERU ZAMA

Date: July 4th, 2013

Takeru Zama  
Name: Takeru Zama  
Title: Inventor

ASSIGNEE: KOICHIRO SAITO

Date: JULY 4th, 2013

K. Saito  
Name: Koichiro Saito  
Title: Inventor