

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Kenneth M. Murphy	04/08/2009
Norihiko Watanabe	04/03/2009
Theresa L. Murphy	04/08/2009
Jianfei Yang	04/04/2009
<b>RECEIVING PARTY DATA</b>	
Name:	The Washington University
Street Address:	One Brookings Drive
City:	St. Louis
State/Country:	MISSOURI
Postal Code:	63130
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Patent Number:	7304149
<b>CORRESPONDENCE DATA</b>	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Correspondent Name:	POLSINELLI SHUGHART PC
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Address Line 4:	St. Louis, MISSOURI 63102-1825
ATTORNEY DOCKET NUMBER:	047563-114969
NAME OF SUBMITTER:	Rebecca L. Endsley

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Total Attachments: 5

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## UNITED STATES PATENT ASSIGNMENT

WHEREAS, Kenneth M. Murphy of St. Louis, Missouri; Norihiko Watanabe of Ciba, Japan, Theresa L. Murphy of St. Louis, Missouri and Jianfei Yang of Sandy Hook Connecticut; (hereinafter referred to as "ASSIGNOR"), owns an invention (the "INVENTION") relating to an improvement in BTLA NUCLEIC ACIDS and has executed an application for a United States patent based thereon (serial number 10/600,997 filed June 20, 2003 now U.S. Patent No. 7,304,149 issued December 4, 2007) (047563-114969 (CR0390-01/US/3)) (the "APPLICATION");

AND, WHEREAS, The Washington University, a Missouri corporation, having its principal place of business at One Brookings Drive, St. Louis, Missouri 63130 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring certain rights thereunder;

NOW THEREFORE, subject to all terms of the Intellectual Property Policy of Washington University, wherein distribution of income for said invention between Washington University and Inventor will proceed according said Intellectual Property Policy, in consideration of the sum of One Dollar (\$1.00), ASSIGNOR has agreed to and does hereby sell, assign, and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said INVENTION, said APPLICATION, any other United States application (including divisional, continuing, or reissue applications) based in whole or in part on said APPLICATION or in whole or in part on said INVENTION, any foreign applications based in whole or in part on any of the aforesaid United States applications or in whole or in part on said INVENTION, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said INVENTION or any part thereof;


TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had no sale and assignment of said interest been made;

AND ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States of America to issue any and all United States patents which may be

granted upon said United States applications or any of them, or upon said INVENTION or any part thereof, to said ASSIGNEE;

AND ASSIGNOR, his successors and assigns, hereby agrees to execute without further consideration any further lawful documents and any further assurances, and any divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said INVENTION or any part thereof, and in and to said several patents or any of them;

AND ASSIGNOR hereby covenants and agrees with said ASSIGNEE, its successors and assigns, that ASSIGNOR has granted no right or license to make, use, or sell said INVENTION, to anyone except said ASSIGNEE, that prior to the execution of this assignment, ASSIGNOR'S right, title and interest in said INVENTION have not been otherwise encumbered, and that ASSIGNOR has not executed and will not execute any instrument in conflict herewith.

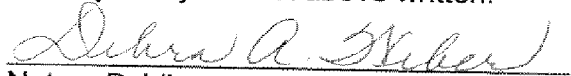
  
\_\_\_\_\_  
KENNETH M. MURPHY  
4/8/09  
\_\_\_\_\_  
Date

ACKNOWLEDGMENT

STATE OF Missouri )  
CITY OF St. Louis ) SS.

On this 8<sup>th</sup> day of April, 2009, before me, a Notary Public, personally appeared KENNETH M. MURPHY to me to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed said instrument as his free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.

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

My Commission Expires: 6-16-11

[SEAL]  
DEBRA A. WEBER  
Notary Public - Notary Seal  
STATE OF MISSOURI  
St. Louis County  
Commission #07430343  
My Commission Expires: June 16, 2011

N. Watanabe  
NORIIHIKO WATANABE

Apr. 3, 2009  
Date

Koichi Hiron  
Witness (1)

April 3, 2009  
Date

Shin Nishis  
Witness (2)

4. 3. 2009  
Date

Theresa L. Murphy

THERESA L. MURPHY

4/8/09

Date

ACKNOWLEDGMENT

STATE OF Missouri )  
CITY OF St. Louis ) SS.

On this 8<sup>th</sup> day of April, 2009, before me, a Notary Public, personally appeared THERESA L. MURPHY to me to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed said instrument as his free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.

Debra A. Weber  
Notary Public

My Commission Expires: 6-16-11

\_\_\_\_\_ [SEAL]

DEBRA A. WEBER  
Notary Public - Notary Seal  
STATE OF MISSOURI  
St. Louis County  
Commission #07430343  
My Commission Expires: June 16, 2011

Jianfei Yang  
JIANFEI YANG

4/4/2009  
Date

ACKNOWLEDGMENT

STATE OF Connecticut )  
County of Fairfield ) SS. Newtown  
CITY OF Fairfield )

On this 4<sup>th</sup> day of April, 2009, before me, a Notary Public, personally appeared JIANFEI YANG to me to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed said instrument as his free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.

Karen A Baywood  
Notary Public

My Commission Expires: 9/31/2009

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[SEAL]

