PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LUKE WHITESELL	02/03/2014
SUSAN L. LINDQUIST	02/06/2014
HOWARD HUGHES MEDICAL INSTITUTE	02/06/2014

RECEIVING PARTY DATA

Name:	WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH
Street Address:	NINE CAMBRIDGE CENTER
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US2013047035

CORRESPONDENCE DATA

Fax Number: (617)646-8646

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 617-646-8000

Email: patents hunterb@wolfgreenfield.com

Correspondent Name: C. HUNTER BAKER

Address Line 1: WOLF, GREENFIELD & SACKS, P.C.

Address Line 2: 600 ATLANTIC AVENUE

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	W0571.70032WO00
NAME OF SUBMITTER:	C. HUNTER BAKER, M.D., PH.D.
SIGNATURE:	/C. Hunter Baker/
DATE SIGNED:	03/18/2014

Total Attachments: 7

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PATENT REEL: 032464 FRAME: 0170

ASSIGNMENT

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

- Sell, assign, and transfer to Whitehead Institute for Biomedical Research, a Delaware nonprofit corporation, having a place of business at Nine Cambridge Center, Cambridge, Massachusetts, 02142, 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 international PCT application filed with the United States Patent and Trademark Office as the Receiving Office on June 21, 2013, under No. PCT/US2013/047035, bearing Attorney Docket No. W0571,70032WO00, and entitled COMPOUNDS FOR TREATING INFECTIOUS DISEASES, and in and to the application and all corresponding provisional, non-provisional, national stage, divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent, utility models, industrial designs, or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including, but not limited to. China, Japan, and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan, and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
- 2. Agree that the Assignee may apply for and receive 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, we agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, national stage, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model, and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney, and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the patent to the Assignee;
- 4. 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.

9-2-9-014	Longer Shipping
Date Inventor:	Lake Whitesell
Address:	17 Šottage Avenue
	Somerville, Massachusetts 02144
	United States of America
Citizenship:	US
STATE/COMMONWEALTH OF Massachuse COUNTY OF Middlesex	<u>H9</u>
COUNTY OF Middlesex	
On this 3 day of February . 20	before me, the undersigned notary public
personally appeared Luke Whitesell	before me, the undersigned notary public, , proved to me through satisfactory evidence of
identification, which were personal knowled	ocas;
to be the person who signed the preceding or attached	
to me that the contents of the document are truthful and	
and belief and acknowledged to me that (he) (she) sign	ed it voluntarily for its stated purpose.
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Notary Public	
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My commission expires: ろ.リル	
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	OTARY PUBLICA
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Date		Inventor:	Susan L. Lindquist, individually and as an Agent
			for Howard Hughes Medical Institute
		Address:	75 E. Cambridge Parkway
			Cambridge, Massachusetts 02142
			United States of America
		Citizenship:	US
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			*
STATE/COMMONWE	ALTH OF		
COUNTY OF		*	
On this	day of	,	, before me, the undersigned notary public,
personally appeared	Susan L	Lindquist	, proved to me through satisfactory evidence of
identification, which we			****
to be the person who s	signed the preced	ding or attached	document in my presence and swore or affirmed
to me that the contents	of the document	it are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknow	ledged to me tha	at (he) (she) sign	ed it voluntarily for its stated purpose.
SEAL			
DEAL			***************************************
	No	otary Public	
My commission ex	pires:		
	- Santana	***************************************	

ASSIGNMENT

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

- Sell, assign, and transfer to Whitehead Institute for Biomedical Research, a Delaware nonprofit corporation, having a place of business at Nine Cambridge Center, Cambridge, Massachusetts, 02142, 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 international PCT application filed with the United States Patent and Trademark Office as the Receiving Office on June 21, 2013, under No. PCT/US2013/047035, bearing Attorney Docket No. W0571,70032W000, and entitled COMPOUNDS FOR TREATING INFECTIOUS DISEASES, and in and to the application and all corresponding provisional, non-provisional, national stage, divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent, utility models, industrial designs, or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including, but not limited to, China, Japan, and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan, and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent:
- 2. Agree that the Assignee may apply for and receive 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, we agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, national stage, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model, and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney, and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the patent to the Assignee;
- 4. 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:	Luke Whiteseli
		Address:	17 Cottage Avenue
			Somerville, Massachusetts 02144
			United States of America
		Citizenship:	US
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STATE/COMMONWEA	LTH OF		
COUNTY OF			
On this	day of		, before me, the undersigned notary public,
personally appeared		uke Whitesell	, proved to me through satisfactory evidence of
identification, which wer			,
to be the person who sig	gned the p	receding or attached (document in my presence and swore or affirmed
to me that the contents	of the doc	ument are truthful and	accurate to the best of (his) (her) knowledge
and belief and acknowle	edged to m	ne that (he) (she) signe	ed it voluntarily for its stated purpose.
mm A:			
SEAL		***************************************	
		Notary Public	
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My commission exp	ires:	rectary r done	

2/6/2014	S. Lays
Date Inventor:	Susan L. Lindquist, individually and as an Agent
	for Howard Hughes Medical Institute
Address:	75 E. Cambridge Parkway
	Cambridge, Massachusetts 02142
	United States of America
Citizenship:	US
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STATE/COMMONWEALTH OF MASSACHE SET	
STATE/COMMONWEALTH OF MASSACHE SOTI	
,	
On this 6/2 day of 60/2004 , 20. personally appeared Susan L. Lindquist	, before me, the undersigned notary public,
personally appeared Susan L. Lindquist	, proved to me through satisfactory evidence of
identification, which were forsymatry know	
to be the person who signed the preceding or attached	
to me that the contents of the document are truthful and	
and belief and acknowledged to me that (he) (she) signe	ed it voluntarily for its stated purpose.
The Lund	w.ev
Notary Public	
SEAt /// / Lace	

APPOINTMENT OF INVESTIGATOR AS AGENT

Appointment by the Howard Hughes Medical Institute ("HHMI") of Susan L. Lindquist, PhD, an employee of HHMI, as its agent for the purpose of assigning certain rights to Whitehead Institute for Biomedical Research ("WIBR").

WHEREAS, HHMI and WIBR collaborate in the active conduct of medical research pursuant to a Statement and Agreement of collaboration between HHMI and the Massachusetts Institute of Technology dated as of February 1, 1988, as amended (the "Collaboration Agreement");

WHEREAS, pursuant to the Collaboration Agreement, HHMI has agreed to assign to WIBR HHMI's rights with respect to intellectual property resulting from research by HHMI employees, alone or with others, at WIBR during the term of the Collaboration Agreement, whether or not patentable or copyrightable, and whether funded in whole or in part by HHMI (each a "Subject Property");

WHEREAS, research conducted pursuant to the Collaboration Agreement by Susan L. Lindquist, PhD while employed by HHMI at WIBR has resulted in the invention of a certain Subject Property entitled "Discovery of Inhibitors of Gwt1 with Activity Against Pathogenic Organisms," which is the subject of a patent application entitled "Compounds for Treating Infectious Diseases" filed in the U.S. Patent and Trademark Office on June 21, 2012 with Serial Number 61/662,755, and the Invention is a Subject Property; and

WHEREAS, HHMI wishes Susan L. Lindquist, PhD to act as its agent for the purpose of assigning to WIBR the rights HHMI has in the Invention by reason of the research program conducted at WIBR,

NOW THEREFORE, HHMI hereby appoints Susan L. Lindquist, PhD as its agent for the purpose of assigning the rights HHMI has or may acquire in the Invention by reason of the research program conducted at WIBR to WIBR in accordance with and subject to the conditions of the Agreement.

Executed: November 12, 2012

HOWARD HUGHES MEDICAL INSTITUTE

By:

Jack E. Diza

Vice President and Chief Scientific Officer

ATTESTED:

Craig MAlexander

Vice President and General Counsel -

SL12-02 HHMI 05273

> PATENT REEL: 032464 FRAME: 0177

RECORDED: 03/18/2014