

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BIRGITTE BINDERUP SIMEN	06/30/2009
ELIZABETH PATRICIA ST. JOHN	06/30/2009
RECEIVING PARTY DATA	
Name:	454 LIFE SCIENCES CORPORATION
Street Address:	20 COMMERCIAL STREET
City:	BRANFORD
State/Country:	CONNECTICUT
Postal Code:	06405
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14586563
CORRESPONDENCE DATA	
Fax Number:	(202)842-7899
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	6179372383
Email:	lromano@cooley.com
Correspondent Name:	CHRISTINA K. STOCK
Address Line 1:	COOLEY LLP
Address Line 2:	1299 PENNSYLVANIA AVENUE NW, SUITE 700
Address Line 4:	WASHINGTON, D.C. 20004
ATTORNEY DOCKET NUMBER:	454L-040/R01US
NAME OF SUBMITTER:	CHRISTINA K. STOCK
SIGNATURE:	/Christina K. Stock/
DATE SIGNED:	08/23/2016
Total Attachments: 4	
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source=454L-040R01US - Assignment#page2.tif	
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source=454L-040R01US - Assignment#page4.tif	

ASSIGNMENT

I, Birgitte Binderup **SIMEN** and Elizabeth Patricia **ST. JOHN**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **454 Life Sciences Corporation**, a Delaware corporation, with offices at **20 Commercial Street, Branford, Connecticut 06405**, and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

SYSTEM AND METHOD FOR DETECTION OF HIV TROPISM VARIANTS

filed with the U.S. Patent and Trademark Office on June 17, 2009¹ and assigned Serial No. 12/456,528¹, including any subsequently filed utility applications, which claims priority to U.S. Provisional Patent Application Serial No. **61/077,356**, filed **July 1, 2008**, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

¹ Any attorney or agent of record and any registered attorney or agent of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., Chrysler Center, 666 Third Avenue, New York, NY 10017, Telephone No. (212) 935-3000, is hereby authorized to insert, when known.

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

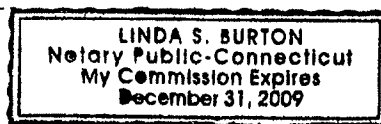
I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 30 June, 2009

Birgitte S.
Signature of **Birgitte Binderup Simen**

On this 30th day of June, 2009, before me, the undersigned notary public, personally appeared Birgitte Binderup Simen, proved to me through satisfactory evidence of identification, which were USA company photo / ID BADGE, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his)(her) knowledge and belief.

Linda S. Burton
Notary Public
My commission expires: December 31, 2009



Date: _____

Signature of: **Elizabeth Patricia St. John**

On this _____ day of _____, 2009, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his)(her) knowledge and belief.

Notary Public
My commission expires: _____

ASSIGNMENT

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I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

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Date: _____

Signature of: Birgitte Binderup Simen

On this _____ day of _____ 2009, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his)(her) knowledge and belief.

Notary Public

My commission expires: _____

Date: 06-30-09

Elizabeth Patricia St. John
Signature of: Elizabeth Patricia St. John

On this 30th day of June 2009, before me, the undersigned notary public, personally appeared Elizabeth Patricia St. John, proved to me through satisfactory evidence of identification, which were 454 Company Photo ID Badge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his)(her) knowledge and belief.

Linda S. Burton
Notary Public

My commission expires: December 31, 2009.