

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5454999

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BETTE T. KORBER	07/18/2017
PETER T. HRABER	07/18/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LOS ALAMOS NATIONAL SECURITY, LLC
<b>Street Address:</b>	LOS ALAMOS NATIONAL LABORATORY
<b>Internal Address:</b>	LC/TAS, P.O. BOX 1663
<b>City:</b>	LOS ALAMOS
<b>State/Country:</b>	NEW MEXICO
<b>Postal Code:</b>	87545
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16081771
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)526-5000
<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>	
<b>Phone:</b>	6175266000
<b>Email:</b>	WHIPDocketStaff@wilmerhale.com
<b>Correspondent Name:</b>	WILMERHALE
<b>Address Line 1:</b>	60 STATE STREET
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02109
<b>ATTORNEY DOCKET NUMBER:</b>	1234300.301 US2
<b>NAME OF SUBMITTER:</b>	MICHAEL E. CONNORS
<b>SIGNATURE:</b>	/Michael E. Connors/
<b>DATE SIGNED:</b>	04/03/2019
<b>Total Attachments: 2</b>	
source=301US2_Executed_Assignment_LANS#page1.tif	
source=301US2_Executed_Assignment_LANS#page2.tif	

## ASSIGNMENT

WHEREAS, we, **Bette T. Korber**, of Los Alamos, New Mexico, and, **Peter T. Hrabec**, of Los Alamos, New Mexico, have invented certain invention(s), as described at least in part, in the following patent application(s):

US Provisional Application No. 62/303273 filed on 03 March 2016;  
US Provisional Application No. 62/403649 filed on 03 October 2016 and  
PCT Application No. PCT/US2017/020823, filed on 03 March 2017, entitled  
“COMPOSITIONS AND METHODS FOR INDUCING HIV-1 ANTIBODIES”

which application(s) and invention(s) are collectively referred to as “the Invention.”

WHEREAS, **Los Alamos National Security, LLC**, a Delaware Limited Liability Company, located at the Los Alamos National Laboratory, LC/TAS, P.O. Box 1663, Los Alamos, New Mexico 87545, desires to acquire an interest therein:

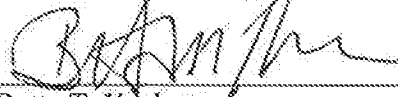
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Bette T. Korber and Peter T. Hrabec hereby sell, assign, and transfer to Los Alamos National Security, LLC, all right, title, and interest we have in and to the Invention and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; the Invention and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by Los Alamos National Security, LLC, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made and agree that we will communicate to Los Alamos National Security, LLC, or its successors and assigns, any facts known to us respecting the Invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid Los Alamos National Security, LLC, its successors, and assigns to obtain and enforce proper patent protection for the Invention in the United States or any foreign country.

We confirm that, at the time the Invention was made, we were under an obligation to assign the Invention to Los Alamos National Security, LLC.

We hereby grant Los Alamos National Security, LLC the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with

all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

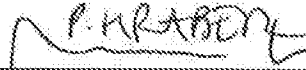
Executed at the place and date opposite our respective signatures below.



Bette T. Körber

At Los Alamos NM  
(City and State)

on this 18 day of July, 2017.



Peter T. Hraber

At LOS ALAMOS NM  
(City and State)

on this 18 day of JULY, 2017.