

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4533741

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BARTON F. HAYNES	06/21/2007
S. MUNIR ALAM	06/14/2007
HUA-XIN LIAO	06/14/2007
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<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15633487
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<b>DATE SIGNED:</b>	08/03/2017
<b>Total Attachments: 2</b>	
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ASSIGNMENT  
of U.S. Origin Patent Application

1) Barton F. HAYNES  
2) S. Munir ALAM  
3) Hua-Xin LIAO

(hereinafter collectively ASSIGNOR), have made an invention known as Dkt. **01579-1213** and entitled: **METHOD OF INDUCING NEUTRALIZING ANTIBODIES TO HUMAN IMMUNODEFICIENCY VIRUS** for which an application for Letters Patent of the United States

☐ was executed even date herewith and is about to be filed in the United States Patent and Trademark Office;

☒ was filed on **April 13, 2007**, U.S. Application No. **11/785,077**, which is a continuation-in-part of International Patent Application No. PCT/US2006/013684, filed April 12, 2006, which claims priority from U.S. Provisional Appln. Nos. 60/670,243 filed April 12, 2005, 60/675,091 filed April 27, 2005, 60/697,997 filed July 12, 2005 and 60/757,478 filed January 10, 2006;

AND WHEREAS **DUKE UNIVERSITY, Durham, North Carolina 27710**

(hereinafter ASSIGNEE), desires to acquire an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, its entire right, title and interest to the said invention in the aforesaid application, and to the said application and to all continuations, divisions, reissues and substitutes of said application, and foreign counterparts thereof, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres,

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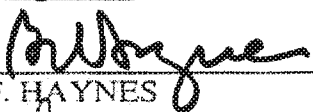
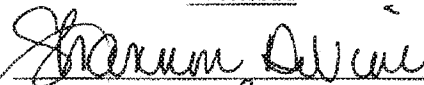

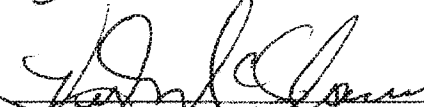
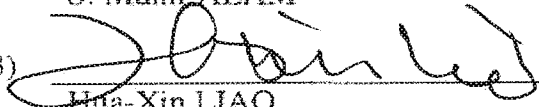
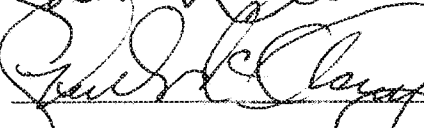
and ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

AND ASSIGNOR hereby agrees to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

ASSIGNOR furthermore agrees upon request of said ASSIGNEE, and without further remuneration, to execute any and all papers desired by said ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE.

The undersigned hereby authorize(s) Nixon & Vanderhye P.C. of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

Executed on the date(s) below indicated.

	<u>Signature</u>	<u>Date Signed</u>	<u>Witness</u>
1)	 Barton F. HAYNES	6/21/05	
2)	 S. Munir ALAM	6/19/07	
3)	 Hua-Xin LIAO	6/14/07	

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