

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5194423

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MIGUEL E. QUINONES-MATEU	08/07/2015
ERIC J. ARTS	09/15/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CASE WESTERN RESERVE UNIVERSITY
<b>Street Address:</b>	10900 EUCLID AVENUE
<b>City:</b>	CLEVELAND
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44106
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14540774
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)621-4072
<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>	216-621-2234
<b>Email:</b>	jsherrill@tarolli.com
<b>Correspondent Name:</b>	RICHARD A. SUTKUS
<b>Address Line 1:</b>	1300 E. 9TH STREET
<b>Address Line 2:</b>	SUITE 1700
<b>Address Line 4:</b>	CLEVELAND, OHIO 44114
<b>ATTORNEY DOCKET NUMBER:</b>	CWR-022884US ORD
<b>NAME OF SUBMITTER:</b>	RICHARD A. SUTKUS
<b>SIGNATURE:</b>	/Richard A. Sutkus/
<b>DATE SIGNED:</b>	10/18/2018
<b>Total Attachments: 2</b>	
source=CWR022884USORDASSIGNMENT#page1.tif	
source=CWR022884USORDASSIGNMENT#page2.tif	

ASSIGNMENT

WHEREAS, we, Miguel E. Quinones-Mateu, of Rocky River, County of Cuyahoga, State of Ohio and Eric J. Arts, of Cleveland Heights, County of Cuyahoga, State of Ohio; and have made new and useful improvements in **HIV-1 GENOTYPING AND CORECEPTOR TROPISM ASSAY**; for which application for Letters Patent of the United States has been filed on November 13, 2014, under Serial No. ~~14/450,774~~; and

*14/540,774 H.C. 11/4/15*

WHEREAS, Case Western Reserve University, is a tax-exempt nonprofit organization duly organized and existing under the laws of the State of Ohio, having a place of business at 10900 Euclid Avenue, City of Cleveland, County of Cuyahoga, State of Ohio;

WHEREAS, Case Western Reserve University and Miguel E. Quinones-Mateu and Miguel E. Quinones-Mateu and have certain rights and responsibilities pursuant to the Case Western Reserve University Intellectual Property Policy; and

WHEREAS, the Case Western Reserve University Intellectual Property Policy provides that Case Western Reserve University owns the entire right, title and interest in and to the said improvements and all patents therefor to be obtained in the United States of America and countries foreign to the United States;

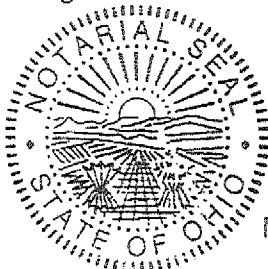
NOW THEREFORE, BE IT KNOWN that for valuable considerations to us paid, the receipt whereof is hereby acknowledged, we, the said Eric J. Arts and Miguel E. Quinones-Mateu, do hereby assign unto the said Case Western Reserve University, its successors or assigns, the entire right, title and interest in and to the said improvements and any and all inventions pertaining thereto, said application Serial No. ~~14/450,774~~, for the United States patent, all patents granted therefor in the United States of America and elsewhere, and the right to apply for patents therefor in all countries foreign to the United States and to claim for such applications the priority of United States applications, and we hereby request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents, to issue such patents to the said Case Western Reserve University, its successors or assigns; and I further agree to execute such other applications and other instruments and do all other acts as may be deemed necessary by the said Case Western Reserve University, its successors or assigns in order to fully secure, protect and preserve its rights to the said improvements and to obtain patents therefor in the United States of America and all countries foreign to the United States, all without further consideration but at the expense of the said Case Western Reserve University, its successors or assigns.

*14/540,774 H.C. 11/4/15*  
\_\_\_\_\_  
Miguel E. Quinones-Mateu

STATE OF

COUNTY OF

On this *8th* day of *Aug.*, 2015 *H.C.* personally appeared before me Miguel E. Quinones-Mateu, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.



HONGMAN CHEN  
NOTARY PUBLIC  
STATE OF OHIO  
Recorded in  
Cuyahoga County  
My Comm. Exp. 3/28/18

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

Signed at \_\_\_\_\_

County of \_\_\_\_\_

and State of \_\_\_\_\_

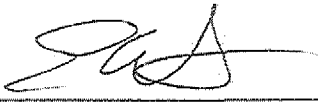
This \_\_\_\_\_

day of \_\_\_\_\_

, 2015.

Date: \_\_\_\_\_

Sept 15/15



Eric J. Arts

Date: \_\_\_\_\_

Sept 15/15



Witness