

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3801106

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DEVIN DRESSMAN	06/06/2006
HAI YAN	06/06/2006
KENNETH W. KINZLER	06/06/2006
BERT VOGELSTEIN	06/06/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE JOHNS HOPKINS UNIVERSITY
<b>Street Address:</b>	3400 N. CHARLES STREET
<b>City:</b>	BALTIMORE
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	21218
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13311120
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)824-3001
<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>	202-824-3000
<b>Email:</b>	jhazzard@bannerwitcoff.com, bwptopat@bannerwitcoff.com
<b>Correspondent Name:</b>	BANNER & WITCOFF, LTD.
<b>Address Line 1:</b>	1100 13TH STREET, NW
<b>Address Line 2:</b>	SUITE 1200
<b>Address Line 4:</b>	WASHINGTON, D.C. 20005
<b>ATTORNEY DOCKET NUMBER:</b>	001107.00908
<b>NAME OF SUBMITTER:</b>	SARAH A. KAGAN
<b>SIGNATURE:</b>	/Sarah A. Kagan/
<b>DATE SIGNED:</b>	03/25/2016
<b>Total Attachments: 3</b>	
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source=Executed-Assignment#page2.tif	



**ASSIGNMENT**

WHEREAS, WE, Devin Dressman, a U.S. citizen, residing at 701 S. Luzerne Avenue, Baltimore, Maryland 21224; Hai Yan, a Chinese citizen, residing at 7236 Montgomery Road, #3C, Elkridge, Maryland 21075; Kenneth W. Kinzler, a U.S. citizen, residing at 1403 Halkirk Way, Baltimore, Maryland 21015 and Bert Vogelstein, a U.S. citizen, residing at 3700 Breton Way, Baltimore, Maryland 21208 (Assignors), have invented certain new and useful improvements in "METHOD AND COMPOSITIONS FOR DETECTION AND ENUMERATION OF GENETIC VARIATIONS" for which an International Patent application was filed on June 9, 2004, and accorded Serial No. PCT/US2004/015587, and a U.S. National Phase application was filed on December 29, 2005, and accorded Serial No. 10/562,840;

WHEREAS, The Johns Hopkins University, a corporation duly organized under the laws of the State of Maryland, having a place of business at 3400 N. Charles Street, Baltimore, Maryland 21218 (Assignee), is desirous of acquiring our entire right, title and interest in and to the aforesaid inventions and in and to any Letters Patents of the United States or any foreign country which may be granted therefore;

NOW THEREFORE, for good and valuable consideration, we, Devin Dressman, Hai Yan, Kenneth W. Kinzler, and Bert Vogelstein, by these presents do sell, assign, and transfer unto The Johns Hopkins University, its successors, legal representatives and assigns, our full right to the said inventions as described in the said applications, and our entire right, title and interest in and to any and all Letters Patents which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks or any other proper officer or agency of any country to issue all said Letters Patents to said assignee;

AND WE HEREBY warrant and covenant that we have full right to convey our entire interest herein assigned and that we have not executed and will not execute any instrument or assignment in conflict herewith;

AND WE HEREBY agree to communicate to said assignee or its representatives any facts known to us respecting said inventions, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said inventions, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said assignee to obtain and enforce said Letters Patents in the United States or any foreign country when requested so to do by said assignee.

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

6/6/06

Inventor: \_\_\_\_\_

  
Devin Dressman

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

Inventor: \_\_\_\_\_

Hai Yan

284  
U.S. ASSIGNMENT 101 River Birch Lane 284  
NC, 27514

WHEREAS, WE, Devin Dressman, a U.S. citizen, residing at 701 S. Luzerne Avenue, Baltimore, Maryland 21224; Hai Yan, a Chinese citizen, residing at 7236 Montgomery Road, #3C, Ellicott City, Maryland 21075; Kenneth W. Kinzler, a U.S. citizen, residing at 1403 Halkirk Way, Baltimore, Maryland 21015 and Bert Vogelstein, a U.S. citizen, residing at 3700 Breton Way, Baltimore, Maryland 21208 (Assignors), have invented certain new and useful improvements in "METHOD AND COMPOSITIONS FOR DETECTION AND ENUMERATION OF GENETIC VARIATIONS" for which an International Patent application was filed on June 9, 2004, and accorded Serial No. PCT/US2004/015587, and a U.S. National Phase application was filed on December 29, 2005, and accorded Serial No. 10/562,840;

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AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks or any other proper officer or agency of any country to issue all said Letters Patents to said assignee;

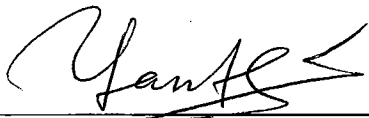
AND WE HEREBY warrant and covenant that we have full right to convey our entire interest herein assigned and that we have not executed and will not execute any instrument or assignment in conflict herewith;

AND WE HEREBY agree to communicate to said assignee or its representatives any facts known to us respecting said inventions, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said inventions, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said assignee to obtain and enforce said Letters Patents in the United States or any foreign country when requested so to do by said assignee.

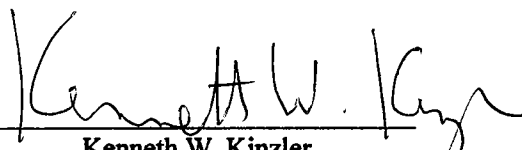
Date: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Devin Dressman

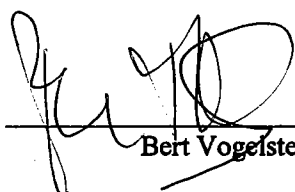
Date: 06-06-06

Inventor:   
Hai Yan

Date: 6/6/06

Inventor:   
Kenneth W. Kinzler

Date: 6/6/14

Inventor:   
Bert Vogelstein