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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BERT VOGELSTEIN	01/14/2016
NICKOLAS PAPADOPOULOS	01/14/2016
KENNETH W KINZLER	01/14/2016
YUCHEN JIAO	01/18/2016
CHETAN BETTEGOWDA	01/14/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14765692

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DATE SIGNED:	02/01/2016	

Total Attachments: 4

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> PATENT REEL: 037633 FRAME: 0160

<u>ASSIGNMENT</u>

WHEREAS, we,

Bert VOGELSTEIN, a citizen of the United States of America, with a mailing address at 3700 Breton Way, Baltimore, Maryland 21208 (US);

Nickolas PAPADOPOULOS, a citizen of the United States of America, with a mailing address at 606 Horncrest Road, Towson, Maryland 21204 (US);

Kenneth W. KINZLER, a citizen of the United States of America, with a mailing address at 616 Ponte Villas North, Baltimore, MD 21230 (US);

Yuchen JIAO, a citizen of China, with a mailing address at 1650 Orleans St, Baltimore, MD 21231 (US);

Chetan BETTEGOWDA, a citizen of the United States of America, with a mailing address at 2201 Regene Drive #T2, Baltimore MD 21209 (US);
6 Dripping Pond Court, Lutherville, MD 21093 C.B.

are inventors, along with Hai YAN and Darell D. BIGNER, of certain inventions and improvements described in a U.S. patent application identified by having the title:

TERT PROMOTER MUTATIONS IN GLIOMAS AND A SUBSET OF TUMORS

which application

[X] was filed on <u>August 4, 2015</u> and as U.S. Application Serial Number <u>14/765,692</u> and WHEREAS

THE JOHNS HOPKINS UNIVERSITY 3400 N. Charles Street Baltimore, Maryland 21218 United States of America

ASSIGNEE, desires to acquire our entire right, title and interest in and to the said application, inventions and improvements and any patents that may be granted on or as a result thereof in the United States of America (U.S.) and in any and all foreign countries;

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NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged,

We hereby assign, to the above named ASSIGNEE, its successors, assign and legal representatives (NOMINEES) our entire right, title and interest in and to said application, inventions and improvements throughout the world and to any and all patents, petty patents and utility model patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, extensions, renewals, and any non-provisional based on a provisional thereof (LETTERS PATENT).

And we covenant that we have full right to convey our entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

And we further covenant and agree that we will without undue delay execute without further consideration all such papers as may be necessary to perfect the title to said application, inventions and improvements, and LETTERS PATENT in the ASSIGNEE or its NOMINEES, and we agree to communicate to said ASSIGNEE or its NOMINEES all known facts respecting said application, inventions, improvements, and LETTERS PATENT, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid ASSIGNEE or its NOMINEES to obtain and enforce for their own benefit patent protection for said application, inventions and improvements in any and all countries, all at the expense, however, of the ASSIGNEE or its NOMINEES;

And we authorize the ASSIGNEE or its NOMINEES to file in our names or their own, as appropriate, application for LETTERS PATENT in any and all countries of the world, and we authorize and request the Commissioner of Patents and Trademarks of the United States, and any proper official of any country, to issue to said ASSIGNEE or its NOMINEES any and all LETTERS PATENT for said application, inventions and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted;

And we hereby grant our attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

Date: 117.10

Inventor:

Bert VOGELSTEM

Date: 1/14/14

Inventor:

Nickolas PAPADOPOULO

Date: 1 (4/16	Inventor: _	Kenneth W. KINZLER
Date:	Inventor:	Yuchen JIAO

Date: 1/14/16 Inventor: Chetan BETTEGOWDA

Note: No legalization or other witness required.

LAW OFFICES

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Date:	Inventor:	
		Kenneth W. KINZLER
Date: 1/18/20	6 Inventor:	Yuchen JIAO
Date:	Inventor:	Chetan BETTEGOWDA

Note: No legalization or other witness required.

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