

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Bert VOGELSTEIN	03/30/2011
Kenneth KINZLER	03/30/2011
D. Williams PARSONS	05/13/2011
Xiaosong ZHANG	03/28/2011
Jimmy Cheng-Ho LIN	03/28/2011
Rebecca J. LEARY	04/01/2011
Phillip ANGENENDT	03/28/2011
Nickolas PAPADOPOULOS	03/30/2011
Victor VELCULESCU	03/30/2011
Giovanni PARMIGIANI	05/21/2011
Rachel KARCHIN	04/19/2011
Sian JONES	03/30/2011

RECEIVING PARTY DATA

Name:	THE JOHNS HOPKINS UNIVERSITY
Street Address:	3400 N. Charles Street
City:	Baltimore
State/Country:	MARYLAND
Postal Code:	21218

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13060191

CORRESPONDENCE DATA

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 202-824-3000
 Email: jpittman@bannerwitcoff.com

CH \$40.00 13060191

Correspondent Name: Sarah A. Kagan
Address Line 1: 1100 13th St. N.W.
Address Line 2: Suite 1200
Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

ATTORNEY DOCKET NUMBER:	001107.00856
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NAME OF SUBMITTER:	Sarah A. Kagan
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Total Attachments: 10
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ASSIGNMENT

WHEREAS, we,

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

Kenneth W. KINZLER, a citizen of the United States of America, with mailing address at 1403 Halkirk Way, Baltimore, Maryland 21015 (US) and

D. Williams PARSONS, a citizen of the United States of America, with mailing address at 4553 Hemlock Cone Way, Ellicott City, Maryland 21042 (US) and

Xiaosong ZHANG, a citizen of China, with mailing address at 8309 Nunley Drive, Apt E, Baltimore, Maryland 21234 (US) and

Jimmy Chang-Ho LIN, a citizen of the United States of America, with mailing address at 820 N. Broadway, Baltimore, Maryland 21205 (US) and

Rebecca J. LEARY, a citizen of the United States of America, with mailing address at 218 N. Charles Street, Apt. 807, Baltimore, Maryland 21201 (US) and

Philipp ANGENENDT, a citizen of Germany, with mailing address at 6 Sunny Meadow Court, Apt. 301, Baltimore, Maryland 21209 (US) and

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

Victor VELCULESCU, a citizen of the United States of America, with mailing address at 14064 Big Branch Drive, Dayton, Maryland 21036 (US) and

Giovanni PARMIGIANI, a citizen of the United States of America, with mailing address at 337 Warren Avenue, Baltimore, Maryland 21230 (US) and

Rachel KARCHIN, a citizen of the United States of America, with mailing address at 1208 Brookside Lane, Towson, Maryland 21204 (US) and

Sian JONES, a citizen of Great Britain, with mailing address at 111 W. Centre Street, Apt. 305, Baltimore, Maryland 21201 (US) and

along with,

Hai YAN, a citizen of the United States of America, with mailing address at 101 River Birch Lane, Chapel Hill, North Carolina 27514 (US) and

Darrell BIGNER, a citizen of the United States of America, with mailing address at 513 Corbett Ridge Road, Mebane, North Carolina 27302 (US) and

Chien-Tsun KUAN, a citizen of the United States of America, with mailing address at 202 Hardenbrook Court, Cary, North Carolina, 27519 (US)

are the inventors of certain inventions and improvements described in a U.S. patent application identified by having the title:

GENETIC ALTERATIONS IN ISOCITRATE DEHYDROGENASE AND OTHER GENES IN MALIGNANT GLIOMA

which application

[X] was filed as PCT International Application Number PCT/US2009/055803, filed on September 3, 2009 and as U.S. Application Serial Number 13/061,191

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;

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).

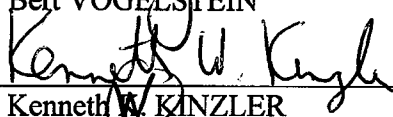
And we covenant that we have full right to convey our entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

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.

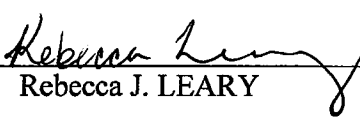
Date: 3/30/11 Inventor: 
Bert VOGELSTEIN

Date: 3/30/11 Inventor: 
Kenneth W. KINZLER

Date: _____ Inventor: _____
D. Williams PARSONS

Date: _____ Inventor: _____
Xiaosong ZHANG

Date: _____ Inventor: _____
Jimmy Chang-Ho LIN

Date: 4/1/11 Inventor: 
Rebecca J. LEARY

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Date: 5/13/11 Inventor: 
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Xiaosong ZHANG

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Date: _____ Inventor: Bert VOGELSTEIN

Date: _____ Inventor: Kenneth K. KINZLER

Date: _____ Inventor: D. Williams PARSONS

Date: 3/28/2011 Inventor: Xiaosong ZHANG

Date: _____ Inventor: Jimmy Chang-Ho LIN

Date: _____ Inventor: Rebecca J. LEARY

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;

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D. Williams PARSONS

Date: _____ Inventor: _____
Xiaosong ZHANG

Date: 3/28/11 Inventor: _____
Jimmy Chang-Ho LIN
Cheng-Ho

Date: _____ Inventor: _____
Rebecca J. LEARY

Date: 3/28/2011 Inventor: Ph. [Signature]
Philip ANGENENDT

Date: _____ Inventor: _____
Nickolas PAPADOPOULOS

Date: _____ Inventor: _____
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Giovanni PARMIGIANI


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Rachel KARCHIN

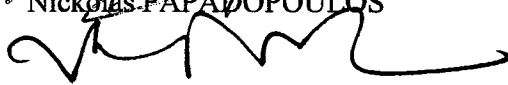
Date: _____ Inventor: _____
Sian JONES

Note: No legalization or other witness required.

LAW OFFICES
BANNER & WITCOFF, LTD.
1100 13th STREET, N.W.
WASHINGTON, D.C. 20005-4051
(202) 824-3000

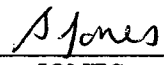
Date: _____ Inventor: _____
Philipp ANGENENDT

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Nickolas PAPAPOPOULOS

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Victor VELCULESCU

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Sian JONES

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Date: _____ Inventor: _____
Nickolas PAPADOPOULOS

Date: _____ Inventor: _____
Victor VELCULESCU

Date: 5/21/11 Inventor: GB
Giovanni PARMIGIANI

Date: _____ Inventor: _____
Rachel KARCHIN

Date: _____ Inventor: _____
Sian JONES

Note: No legalization or other witness required.

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Date: _____ Inventor: _____
Philippp ANGENENDT

Date: _____ Inventor: _____
Nickolas PAPADOPOULOS

Date: _____ Inventor: _____
Victor VELCULESCU

Date: _____ Inventor: _____
Giovanni PARMIGIANI

Date: 4/19/11 Inventor: Rachel Karchin
Rachel KARCHIN

Date: _____ Inventor: _____
Sian JONES

Note: No legalization or other witness required.

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