

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Taehyun Park</td> <td>12/20/2012</td> </tr> <tr> <td>Daniel Sang-Won Park</td> <td>10/25/2012</td> </tr> <tr> <td>Sudheer D. Rani</td> <td>01/31/2013</td> </tr> <tr> <td>Michael C Murphy</td> <td>11/20/2012</td> </tr> <tr> <td>Dimitris E Nikitopoulos</td> <td>12/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Taehyun Park	12/20/2012	Daniel Sang-Won Park	10/25/2012	Sudheer D. Rani	01/31/2013	Michael C Murphy	11/20/2012	Dimitris E Nikitopoulos	12/18/2012
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Taehyun Park	12/20/2012												
Daniel Sang-Won Park	10/25/2012												
Sudheer D. Rani	01/31/2013												
Michael C Murphy	11/20/2012												
Dimitris E Nikitopoulos	12/18/2012												
RECEIVING PARTY DATA													
Name:	Board of Supervisors of Louisiana State University and Agricultural and Mechanical College												
Street Address:	206 Louisiana Emerging Technology Center												
City:	Baton Rouge												
State/Country:	LOUISIANA												
Postal Code:	70803												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13656295</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13656295								
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Application Number:	13656295												
CORRESPONDENCE DATA													
Fax Number:	5045660210												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Email:	jason.mueller@arlaw.com												
Correspondent Name:	Jason P. Mueller												
Address Line 1:	701 Poydras Street, Suite 4500												
Address Line 2:	Adams and Reese, LLP												
Address Line 4:	New Orleans, LOUISIANA 70139												
ATTORNEY DOCKET NUMBER:	3185-58												
NAME OF SUBMITTER:	Jason P. Mueller												

CH \$40.00 13656295

Total Attachments: 10

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PATENT

REEL: 029811 FRAME: 0189

ORIGINAL ASSIGNMENT

For valuable consideration, we

<u>Taehyun Park</u> of (Type name of inventor)	Residence Address: 109 Hari-2ri, Mungyeog-eup Citizenship: Mungyeong-si, gyeongbuk, 745-804 KR
<u>Daniel Sang-Won Park</u> of (Type name of inventor)	Residence Address: 9443 Tasmania Avenue Citizenship: Baton Rouge, Louisiana 70810 US
<u>Sudheer D. Rani</u> of (Type name of inventor)	Residence Address: 1101 Raritan Dr. Citizenship: St. Louis, MO 63119 IN
<u>Michael C. Murphy</u> of (Type name of inventor)	Residence Address: 621 Highland Knoll Court Citizenship: Baton Rouge, Louisiana 70810 US
<u>Dimitris E. Nikitopoulos</u> of (Type name of inventor)	Residence Address: 446 Kenwood Avenue Citizenship: Baton Rouge, Louisiana 70806 GR

the below signed inventors of record, hereby assign to

Board of Supervisors of Louisiana State University and Agricultural and Mechanical College

a university having an address at

206 Louisiana Emerging Technology Center

Baton Rouge, LA 70803

U.S.A

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by me entitled

"METHODS OF AND DEVICES FOR CAPTURING CIRCULATING TUMOR CELLS"

Application Number: 13/656,295

Date of Filing: October 19, 2012

This assignment includes said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, including U.S. Provisional Patent Application No. 61/552,522 and U.S. Patent Application No. 13/656,295 and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. I hereby authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventor's certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assignees, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereby set my hand, date of signature and place of signature as indicated below.

_____ Signature of Inventor	<u>Taehyun Park</u> Typed Name	_____ Date of Signature	_____ Place of Signature City, Country
--------------------------------	-----------------------------------	----------------------------	--

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Taehyun Park, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]

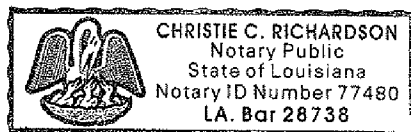
Notary Public Signature

Printed Name of Notary Public

<u><i>Daniel Sang-Won Park</i></u> Signature of Inventor	<u>Daniel Sang-Won Park</u> Typed Name	<u>10-25-12</u> Date of Signature	<u>EAST BATON ROUGE, LA, U.S.A.</u> Place of Signature City, Country
---	---	--------------------------------------	--

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Daniel Sang-Won Park, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]



Christie C. Richardson
Notary Public Signature

Printed Name of Notary Public

_____ Signature of Inventor	<u>Sudheer D. Rani</u> Typed Name	_____ Date of Signature	_____ Place of Signature City, Country
--------------------------------	--------------------------------------	----------------------------	--

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Sudheer D. Rani, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]

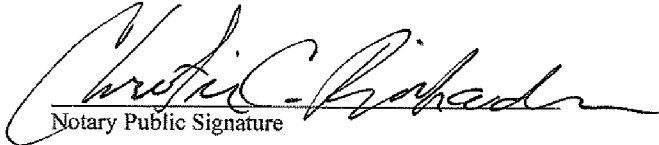
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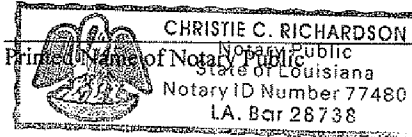
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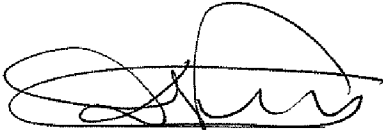
<u><i>Michael C. Murphy</i></u> Signature of Inventor	<u>Michael C. Murphy</u> Typed Name	<u>11/20/12</u> Date of Signature	<u>E. Baton Rouge, LA</u> Place of Signature City, Country
--	--	--------------------------------------	--

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Michael C. Murphy, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]


Notary Public Signature





Signature of Inventor

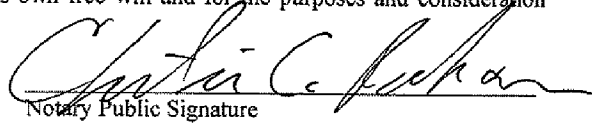
Dimitris E. Nikitopoulos
Typed Name

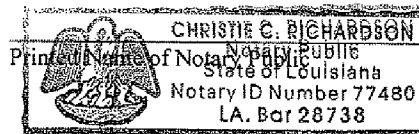
12/18/12
Date of Signature

E. Baton Rouge, LA
Place of Signature
City, Country

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Dimitris E. Nikitopoulos, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]


Notary Public Signature



ORIGINAL ASSIGNMENT

For valuable consideration, we

<u>Taehyun Park</u> of (Type name of inventor)	Residence Address:	109 Hari-2ri, Mungyeong-eup Mungyeong-si, Gyeongbuk, 745-804 KR
	Citizenship:	
<u>Daniel Sang-Won Park</u> of (Type name of inventor)	Residence Address:	9443 Tasmania Avenue Baton Rouge, Louisiana 70810 US
	Citizenship:	
<u>Sudheer D. Rani</u> of (Type name of inventor)	Residence Address:	1101 Raritan Dr. St. Louis, MO 63119 IN
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	Citizenship:	

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IN WITNESS WHEREOF, I hereby set my hand, date of signature and place of signature as indicated below.

_____ Signature of Inventor	<u>Tachyun Park</u> Typed Name	_____ Date of Signature	_____ Place of Signature City, Country
--------------------------------	-----------------------------------	----------------------------	--

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Tachyun Park, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]

Notary Public Signature

Printed Name of Notary Public

_____ Signature of Inventor	<u>Daniel Sang-Won Park</u> Typed Name	_____ Date of Signature	_____ Place of Signature City, Country
--------------------------------	---	----------------------------	--

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Daniel Sang-Won Park, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]

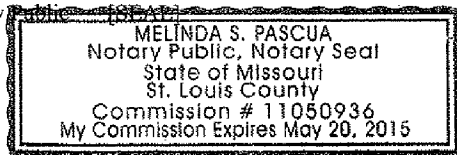
Notary Public Signature

Printed Name of Notary Public

<u>Sudheer D. Rani</u> Signature of Inventor	<u>Sudheer D. Rani</u> Typed Name	<u>01/31/2013</u> Date of Signature	<u>BRENTWOOD, MISSOURI</u> Place of Signature City, Country
---	--------------------------------------	--	---

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Sudheer D. Rani, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]



Melinda S. Pascua
Notary Public Signature

Melinda S. Pascua
Printed Name of Notary Public

_____ Signature of Inventor	<u>Michael C. Murphy</u> Typed Name	_____ Date of Signature	_____ Place of Signature City, Country
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Notary Public [SEAL]

Notary Public Signature

Printed Name of Notary Public

Signature of Inventor

Dimitris E. Nikitopoulos
Typed Name

Date of Signature

Place of Signature
City, Country

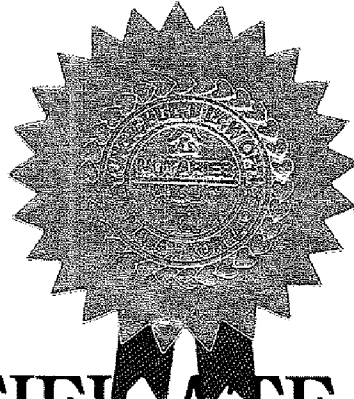
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Notary Public [SEAL]

Notary Public Signature

Printed Name of Notary Public

Registered No. 2012 - 2498



NOTARIAL CERTIFICATE

MYUNG-CHUL JI NOTARY PUBLIC OFFICE

#4-41, Jungang-dong 3ga, Masanhappo-gu,
Changwon-si, Gyeongsangnam-do, Korea



ORIGINAL ASSIGNMENT

For valuable consideration, we

<u>Taehyun Park</u> of (Type name of inventor)	Residence Address:	Residence Address: 109 Hari-2ri, Mungyeog-eup, Mungyeong-si, gyeongbuk, 745-804 Republic of Korea
	Citizenship:	
<u>Daniel Sang-Won Park</u> of (Type name of inventor)	Residence Address:	
	Citizenship:	US
<u>Sudheer D. Rani</u> of (Type name of inventor)	Residence Address:	
	Citizenship:	IN
<u>Michael C. Murphy</u> of (Type name of inventor)	Residence Address:	621 Highland Knoll Court Baton Rouge, Louisiana 70810
	Citizenship:	US
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	Citizenship:	GR

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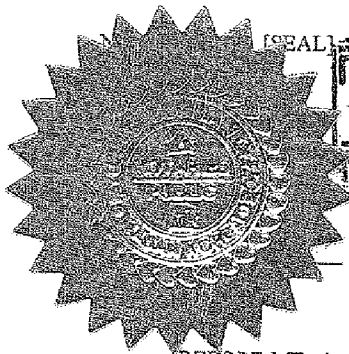
Taehyun Park
Signature of Inventor

Taehyun Park
Typed Name

Dec 20/2012
Date of Signature

Changwon, S. Korea
Place of Signature
City, Country

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Taehyun Park, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.



Myung Chul Ji
Notary Public Signature
MYUNGCHULJI
Printed Name of Notary Public

Daniel Sang-Won Park
Typed Name

Date of Signature

Place of Signature
City, Country

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Daniel Sang-Won Park, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]

Notary Public Signature

Printed Name of Notary Public

Signature of Inventor

Sudheer D. Rani
Typed Name

Date of Signature

Place of Signature
City, Country

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Sudheer D. Rani, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]

Notary Public Signature

Printed Name of Notary Public

Signature of Inventor

Michael C. Murphy
Typed Name

Date of Signature

Place of Signature
City, Country

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Michael C. Murphy, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

등부 2012 년 제 2498 호

Registered No. 2012 - 2498

인 증

Notarial Certificate

위 서 명 확 인 서
에 기재된

PARK, TEAHYUN

personally appeared before
me and admitted his(her)

박 태 현 는
본 공증인의 면전에서 위 사서
증서에 자기가 서명 한 것임을
자인하였다.

subscription to the attached
CONFIRMATION OF
AUTHORIZED SIGNATURE

2012 년 12 월 20 일
이 사무소에서 위 인증한다.

This is hereby attested on
this 20 day of Dec. 2012
at this office

공증인 지명철 사무소

Myung-Chul Ji Notary Public Office

소속 창원지방검찰청

Belong to Changwon District

창원시 마산합포구 중앙동3가

Prosecutor's Office

4의 41번지

#4-41, Jungang-dong 3ga,

공증인

Masanhappo-gu, Changwon-si,

Gyeongsangnam-do, Korea

지명철

MYUNG-CHUL JI

This office has been authorized
by the Minister of Justice, the
Republic of Korea, to act as
Notary Public since

July. 9. 2001. under
Law No. 80