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PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GERD RITTER	09/16/2013
GEORGE MARK	09/17/2013
ANNE MURRAY	11/21/2013
LLOYD J. OLD	09/17/2013
BEATRICE YIN	09/09/2013
SERHIY SOUCHELNYTSKIY	08/20/2010

RECEIVING PARTY DATA

Name:	LUDWIG INSTITUTE FOR CANCER RESEARCH LTD.
Street Address:	605 THIRD AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10158

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15609839

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	2332-1-016PCTUSDIVCON1
NAME OF SUBMITTER:	CHRISTINE E. DIETZEL, PH.D.
SIGNATURE:	/Christine E. Dietzel/
DATE SIGNED:	09/13/2017

PATENT REEL: 043571 FRAME: 0278 504544724

Total Attachments: 7 source=2332_1_016PCTUS_Executed_Ludwig_Inventors_Assignment#page1.tif source=2332_1_016PCTUS_Executed_Ludwig_Inventors_Assignment#page2.tif source=2332_1_016PCTUS_Executed_Ludwig_Inventors_Assignment#page3.tif source=2332_1_016PCTUS_Executed_Ludwig_Inventors_Assignment#page4.tif source=2332_1_016PCTUS_Executed_Ludwig_Inventors_Assignment#page5.tif source=2332_1_016PCTUS_Executed_Ludwig_Inventors_Assignment#page6.tif source=2332_1_016PCTUS_Executed_Ludwig_Inventors_Assignment#page7.tif

PATENT REEL: 043571 FRAME: 0279

ASSIGNMENT

WHEREAS, WE, Gerd Ritter, a citizen of Germany, residing at Ludwig Institute for Cancer Research Ltd., 1275 York Avenue, New York, NY 10021;; and

Beatrice Yin, a citizen of the United States, residing at Ludwig Institute for Cancer Research Ltd., 1275 York Avenue, New York, NY 10021; and

Anne Murray, a citizen of the United States, residing at Ludwig Institute for Cancer Research Ltd., 1275 York Avenue, New York, NY 10021; and

George Mark, a citizen of the United States, residing at Ludwig Institute for Cancer Research Ltd., 1275 York Avenue, New York, NY 10021; and

Lloyd J. Old, a citizen of the United States, residing at Ludwig Institute for Cancer Research Ltd., 1275 York Avenue, New York, NY 10021;; and

Serhiy Souchelnytskiy, a citizen of Sweden, residing at Karolinska Biomics Center, Z5:01, Karolinska Institutet, Karolinska University Hospital, Solna, SE-17176, Stockholm Sweden; and

have invented certain new and useful improvements in

MEMBRANE TRANSPORTER NAPI2B (SLC34A2) EPITOPE FOR ANTIBODY THERAPY, ANTIBODIES DIRECTED THERETO, AND TARGET FOR CANCER THERAPY

for which we have filed an Application for Letters Patent in the United States on July 29, 2010 and was accorded U.S. Serial No. 12/735,576; and

WHEREAS.

Ludwig Institute for Cancer Research, Ltd.,

a corporation organized and existing under the laws of the State of New York, with office at 605 Third Avenue, New York, New York 10158,

ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application;

NOW, THEREFORE, for other good and valuable consideration, the receipt of which is hereby acknowledged, we the said

Gerd Ritter, Beatrice Yin, Anne Murray, George Mark Lloyd J. Old and Serhiy Souchelnytskiy

have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to the said

Ludwig Institute for Cancer Research, Ltd.

PATENT REEL: 043571 FRAME: 0280 its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted

thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the right to claim priority under the terms of any appropriate International Convention based upon said application for Letters Patent of the United States, and all Letters Patent which may be granted from said improvements in any country or

Ludwig Institute for Cancer Research, Ltd.

countries foreign to the United States and extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States, whose duty is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said

Ludwig Institute for Cancer Research, Ltd.

its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the interest herein assigned in the manner herein above set forth, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said

Ludwig Institute for Cancer Research, Ltd.

its successors, legal representatives and assigns, any fact known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisions, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said

Ludwig Institute for Cancer Research, Ltd.

its successors, legal representatives and assigns, to obtain and enforce proper Patent Protection for said improvements in the United States.

IN TESTIMONY WHEREOF, we hereunto set our hand and seal the day and year set opposite our signatures.

Date 3/16/2013,

Gerd Ritter

L.S.

Date 3/9/2013	Beatrice Yin	L.S.
Date,	Anne Murray	L.S.
Date,	George Mark	L.S.
Date,	Lloyd J. Old	L.S.
Date,	Sarbiy Saughahrutekiy	L.S.

Date		L.S.
	Beatrice Yin	
Date it Alas 3.	anne Miria	L.S.
	Anne Murray	
Date,		, L.S.
And the second s	George Mark	
Date,		L.S.
ATTENDED TO THE STATE OF THE ST	Lloyd J. Old	
	Executed on behalf of Lloyd J. Old Legal Representative:	by his Heir and
	Constance Old, a US Citizen	
	Residence and Mailing Address: 17 West 54th Street,	
	Apartment 4B	
	New York, NY 10019	
Date,		L.S.
	Sarbin Sanahalnytelin	

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Date	I	L.S.
	Beatrice Yin	
Date,		S.
Date <u>1756/t 2013,</u>	Anne Murray Loye Ellanto I George Mark	L.S.
Date,	Lloyd J. Old	L.S.
	Executed on behalf of Lloyd J. Old by his I Legal Representative: Constance Old, a US Citizen Residence and Mailing Address: 17 West 54th Street, Apartment 4B New York, NY 10019	Heir and
Date,	I Serhiv Souchelnytskiv	L.S.

Date	L.S.	
	Beatrice Yin	
Date,	L.S.	
	Anne Murray	
Date,	L.S.	
	George Mark	
Date Spt. 17 2013	Constane Old L.S.	
	Lloyd J. Old	
	Executed on behalf of Lloyd J. Old by his Heir a Legal Representative:	anc
	Constance Old, a US Citizen	
	Residence and Mailing Address: 17 West 54th Street,	
	Apartment 4B	
	New York, NY 10019	
Date,	L.S.	
	Serhiy Souchelnytskiy	

	L.S.
Beatrice Yin	
	L.S.
Anne Murray	
	L.S.
George Mark	
	L.S.
Lloyd J. Old	
College	L.S.
Serhiy Southelpytskiy/Sorthy	detern
	Anne Murray George Mark