

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>			<b>Execution Date</b>
GHASSAN S. KASSAB			03/22/2007
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	D THERAPEUTICS, LLC		
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<b>City:</b>	SAN DIEGO		
<b>State/Country:</b>	CALIFORNIA		
<b>Postal Code:</b>	92121		
<b>PROPERTY NUMBERS Total: 5</b>			
<b>Property Type</b>	<b>Number</b>		
<b>Application Number:</b>	12864016		
<b>Application Number:</b>	13106027		
<b>Application Number:</b>	13106035		
<b>Application Number:</b>	14205035		
<b>Application Number:</b>	15168807		
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>			
<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>			
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<b>ATTORNEY DOCKET NUMBER:</b>	P01604 -03 -04 -05 -06 D		
<b>NAME OF SUBMITTER:</b>	MARK C. REICHEL		
<b>SIGNATURE:</b>	/MARK C. REICHEL/		
<b>DATE SIGNED:</b>	05/31/2016		
<b>Total Attachments: 3</b>			

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## PATENT ASSIGNMENT

This PATENT ASSIGNMENT ("Assignment") is entered as of this 22nd day of March, 2007 (the "Effective Date"), by and between Ghassan S. Kassab, Ph.D., an individual with a principal address at 6725 West Stonegate Drive, Zionsville, Indiana 46077 ("GSK"), and DTherapeutics, LLC, a limited liability company with a principal address at 6725 West Stonegate Drive, Zionsville, Indiana 46077 ("DT"). GSK and DT may be individually referred to as a "Party" or collectively referred to as the "Parties."

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. Assignment of Patent Applications. GSK hereby irrevocably assigns, transfers, and conveys to DT all of GSK's right, title and interest in, to and under the inventions and patent applications set forth in **Exhibit A** attached hereto and hereby incorporated by reference herein, including without limitation (i) all inventions and improvements disclosed therein, (ii) all letters patent or similar legal protection granted therefor in the United States and its territorial possessions and in all foreign countries, unions, or regions, (iii) all continuations, divisions, continuations-in-part, substitutions, reissues, renewals, substitutes, and extensions thereof and applications therefor, in the United States and its territorial possessions and in all foreign countries, unions, or regions, (iv) any and all patents and patent applications that claim priority to any of the foregoing, and (v) all rights to enforce including, but not limited to, the right to sue and collect damages for any past or future infringements throughout the world ("Assigned Patents").

2. Filing and Recording of Instruments of Transfer. DT shall make all filings with the requisite intellectual property offices in order to confirm, effectuate or record this Assignment of the Assigned Patents to DT granted herein. DT shall be responsible to file and record any and all documents of conveyance as may be necessary to vest in DT as a matter of public record all of the Assigned Patents.

3. Appointment. GSK hereby constitutes and appoints DT, and its successors and assigns, the true and lawful attorney or attorneys in fact of GSK, with full power of substitution, for it and in its name and stead or otherwise, to institute and prosecute from time to time, any proceedings at law, in equity, or otherwise, that DT, or its successors or assigns, may reasonably deem proper in order to assert or enforce any claim, right, or title of any kind in and to the Assigned Patents, and to defend and compromise any and all actions, suits, or proceedings in respect of any of the foregoing, and generally to do any and all such acts and things in relation thereto as DT, or its successors or assigns, shall reasonably deem advisable, including, but not limited to, the execution and delivery of any and all assignments and instruments in furtherance hereof. GSK declares that the appointment hereby made and the powers hereby granted are coupled with an interest and shall be irrevocable by GSK.

4. Miscellaneous. This Assignment shall be governed, construed, and enforced in accordance with the laws of the State of Indiana, without regard to any state's choice of laws to the contrary. This Assignment shall inure to the benefit of and be binding upon the Parties hereto and their respective successors and assigns. This Assignment may be executed in multiple counterparts, each of which shall be deemed an original and together shall constitute one and the same instrument. Facsimile copies of any signature to this Assignment shall be deemed an original signature hereto.

IN WITNESS WHEREOF, the Parties have executed this Assignment as of the Effective Date.

"GSK"

GHASSAN S. KASSAB, PH.D.

[Signature]

"DT"

D THERAPEUTICS, LLC

By: [Signature]

Title: Manager

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

STATE OF INDIANA )  
COUNTY OF MARION ) ss:

On this 22<sup>ND</sup> day of MARCH, 2007, there appeared before me \_\_\_\_\_, personally known to me or who proved to me his/her identity, who stated that he/she executed this Assignment in his/her official capacity on behalf of \_\_\_\_\_ as his/her voluntary act and deed for the purposes stated therein.

[Signature]  
Signed

Robert M Walter  
Printed

My Commission Expires: 7-19-2014

County of Residence: MARION

# EXHIBIT A

Patent Application Number	Date of Filing	Inventors	Patent Application Title
PCT/US2006/016522	5/1/2006	Kassab	Tissue Engineering of Blood Vessels
PCT/US2006/005985	2/21/2006	Kassab	Devices, systems and methods for plaque type determination
PCT/US2005/42912	11/28/2005	Kassab	Devices, Systems and Methods for Arterializations of Venous System Prior to Retroperfusion
PCT/US2005/42911	11/28/2005	Kassab	Devices, Systems and Methods for Controlling Local Blood Pressure
11/063,836	2/23/2005	Kassab	Devices, Systems, and Methods for Plaque Type Determination
60/881,841	1/23/2007	Kassab	Devices, Systems, and Methods to Evaluate Cardiovascular Function
60/881,840	1/23/2007	Kassab	Devices, Systems and Methods for Mapping Organ Profiles
60/881,839	1/23/2007	Kassab	Devices, Systems and Methods for Navigation of Ablation on the Epicardial Surface of the Heart
60/881,834	1/23/2007	Kassab	Devices, Systems, and Methods for Stents that Promote Endothelialization
60/881,833	1/23/2007	Kassab	Applications of Scaling Laws of Tree Structures
60/881,832	1/23/2007	Kassab	Devices, Systems, and Methods for Controlling Local Blood Pressure
60/817,422	6/30/2006	Kassab	Localization of pulmonary vein-atrial junction for ablation
60/761,783	1/25/2006	Kassab	Devices, Systems, and Methods for Determining Sizes of Vessels
60/675,903	4/29/2005	Kassab	Tissue Engineering of Blood Vessels
60/630,656	11/26/2004	Kassab	Devices, Systems and Methods for Arterializations of Venous System Prior to Retroperfusion
60/630,563	11/26/2004	Kassab	Devices, Systems and Methods for Controlling Local Blood Pressure