

<b>PATENT ASSIGNMENT COVER SHEET</b>
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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>
VLADIMIR ROUSKOV KHRISTOV	02/21/2018
ARVYDAS MIMINISHKIS	02/09/2018
KAPIL BHARTI JR	02/23/2018
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<b>Name:</b>	THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
<b>Street Address:</b>	6011 EXECUTIVE BOULEVARD
<b>City:</b>	BETHESDA
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20892-7660
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16478093
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<b>NAME OF SUBMITTER:</b>	SANDON M. DUNCAN
<b>SIGNATURE:</b>	/Sandon M. Duncan/
<b>DATE SIGNED:</b>	07/15/2019
<b>Total Attachments: 3</b>	
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**ASSIGNMENT FOR NIH/CDC INVENTIONS AIA  
(NIH OR CDC CO-INVENTORS ONLY)**

**WHEREAS**, we, Vladimir Rouskov Khristov, Arvydas Maminishkis, and Kapil Bharti, Jr., employees and/or contractors of the National Institutes of Health, are each employed and/or contracted by a component of the United States Department of Health and Human Services having an address at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660, and have made certain inventions as described and claimed in:

U.S. Provisional Patent Application No. 62/453,148, filed on February 1, 2017, entitled "DEVICES FOR TISSUE CRYOPRESERVATION AND RECOVERY," and

PCT Patent Application No. PCT/US2018/016101, filed on January 31, 2018, entitled "DEVICES FOR TISSUE CRYOPRESERVATION AND RECOVERY,"

both applications are referred to herein as "**The Patent Application(s)**"; and

**WHEREAS**, we are the inventors named in **The Patent Application(s)**; and

**WHEREAS**, the inventions described and claimed in **The Patent Application(s)** were made under conditions such as to entitle **THE UNITED STATES OF AMERICA**, as represented by the Secretary, Department of Health and Human Services [hereinafter **THE GOVERNMENT**] under Executive Order 10096 and its amendments, 35 U.S.C. §§200-201, §§206-207, and §210 and 37 C.F.R. Part 501 to the entire right, title, and interest in such inventions; and

**WHEREAS**, **THE GOVERNMENT** is desirous of acquiring all domestic and foreign right, title, and interest in the inventions described and claimed in **The Patent Application(s)**;

**NOW, THEREFORE**, having the legal obligation to assign our right, title and interest in the inventions described and claimed in **The Patent Application(s)** to **THE GOVERNMENT**, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 and for consideration, the receipt and sufficiency of which are hereby acknowledged, we hereby assign and transfer to **THE GOVERNMENT**:

the entire right, title, and interest in and to any and all inventions described and claimed in **The Patent Application(s)** and any and all Letters Patent which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and


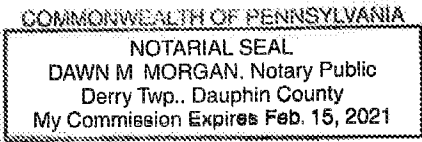

all rights to claim priority on the basis of **The Patent Application(s)** including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

all applications for Letters Patent that may be filed for any and all inventions described and claimed in **The Patent Application(s)** that may be filed in any foreign country and all Letters Patent that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof; and

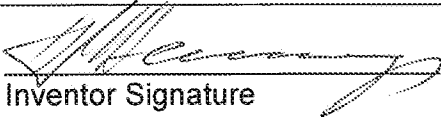
any and all such Letters Patent as may be granted in the United States or any foreign country to be held by **THE GOVERNMENT** to the end of the term for which the same would have been held by the inventor(s) had this assignment not been made.

We further agree to make, execute, and deliver to **THE GOVERNMENT**, upon request, any and all papers, documents, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said invention.

**IN WITNESS WHEREOF** we subscribe our hands and seals on the dates shown below:

Inventor: Vladimir Rouskov Khristov	
Date <u>02/21/2018</u>	 Inventor Signature
County of <u>Dauphin</u>	
State of <u>Pennsylvania</u>	
Subscribed and sworn to before me this <u>21<sup>st</sup></u> day of <u>February</u> , <u>2018</u> .	
Seal	
	Notary Signature:  Notary Public for the State of: <u>Pennsylvania</u> My Commission Expires: <u>Feb. 15, 2021</u>

Inventor: Arvydas Maminishkis

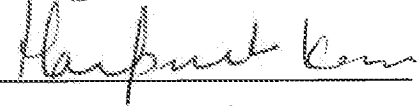
Date 02/09/2018   
 Inventor Signature

County of MD Montgomery  
 State of MD

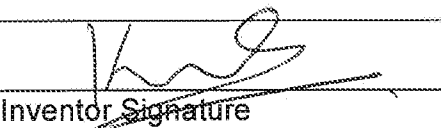
Subscribed and sworn to before me this 9<sup>th</sup> day of February, 2018.

Seal

HARPREET KAUR  
 NOTARY PUBLIC  
 MONTGOMERY COUNTY  
 MARYLAND

Notary Signature:   
 Notary Public for the State of: MD  
 My Commission Expires: 11/07/2019


Inventor: Kapil Bharti, Jr.

Date 02/23/2018   
 Inventor Signature


County of Montgomery  
 State of MD

Subscribed and sworn to before me this 23<sup>rd</sup> day of February, 2018.

Seal



Ingrid G Harris  
 NOTARY PUBLIC  
 Prince George's County  
 State of Maryland  
 My Commission Expires  
7/10/2020

Notary Signature:   
 Notary Public for the State of: Maryland  
 My Commission Expires: 7/10/2020