

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6796282

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
SEQUENCE:	3		
CONVEYING PARTY DATA			
	Name	Execution Date	
	MADS GURTLE	02/11/2016	
	DOUGLAS A. MELTON	02/11/2016	
	HOWARD HUGHES MEDICAL INSTITUTE	02/11/2016	
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State/Country:	MASSACHUSETTS		
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PROPERTY NUMBERS Total: 1			
	Property Type	Number	
	Application Number:	16934885	
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SIGNATURE:	/Lisa M. Warren/		
DATE SIGNED:	07/02/2021		
Total Attachments: 4			
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COMBINED DECLARATION AND ASSIGNMENT

WHEREAS, we, **Douglas A. Melton** and **Mads Gørtler**, have invented subject matter described in an application for Letters Patent of the United States entitled **SERUM-FREE IN VITRO DIRECTED DIFFERENTIATION PROTOCOL FOR GENERATING STEM CELL-DERIVED β CELLS AND USES THEREOF** (hereinafter "INVENTION"), the specification of which:

☐ is being executed on even date herewith; and is about to be filed in the United States Patent Office;

☒ was filed on **December 18, 2015**, as Application No. **14/975,158**;

WHEREAS, **Howard Hughes Medical Institute**, a corporation organized and existing under the laws of the state of **Delaware**, and having a usual place of business at **4000 Jones Bridge Road, Chevy Chase, Maryland 20815-6789**, has acquired an interest therein;

WHEREAS, **President and Fellows of Harvard College** (hereinafter "ASSIGNEE"), an entity organized and existing under the laws of the Commonwealth of Massachusetts, having principal offices at **17 Quincy Street, Cambridge, Massachusetts 02138**, desires to acquire both our interest and the interest of **Howard Hughes Medical Institute** therein in accordance with applicable agreements;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said INVENTION as described in said application, together with our entire right, title and interest in and to said application and foreign counterpart applications and such Letters Patent issued or issuing in whole or in part thereon, as well as any reissue and continuing applications and foreign counterpart applications thereof as well as any Letters Patent issued or issuing in whole or part thereon, and including the right to claim priority under any applicable statute, treaty or convention based on said application; said INVENTION, applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before

government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications to said ASSIGNEE, its successors, assigns, and legal representatives.

FURTHERMORE, as a below named inventor, we each hereby declare, with the acknowledgement that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, that:

- The above-identified application was made or authorized to be made by me;
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application;
- I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above;
- I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application;

Inventor Mads Gürtler
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Witness M. Gürtler

Date: FEB 11, 2016

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Inventor *Douglas A. Melton*
Douglas A. Melton, Individually and
as Agent for Howard Hughes Medical Institute

Date: *2/11/16*

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Witness _____ Date: _____

Address _____

Witness _____ Date: _____

Address _____

Celia Shneider
Celia Shneider
Notary Public
exp. 12/30/22

