PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CECELIA C. YATES-BINDER	01/28/2015
ALAN H. WELLS	01/30/2015
IAN P. CONNER	01/30/2015
JOEL S. SCHUMAN	01/27/2015

RECEIVING PARTY DATA

Name:	UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION
Street Address:	200 GARDNER STEEL CONFERENCE CENTER
Internal Address:	THACKERAY AND O'HARA STREETS
City:	PITTSBURGH
State/Country:	PENNSYLVANIA
Postal Code:	15260

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15113035

CORRESPONDENCE DATA

Fax Number: (503)595-5301

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.

Phone: 503-595-5300

Email: gina.horton@klarquist.com

Correspondent Name: JODI L. CONNOLLY, KLARQUIST SPARKMAN LLP

Address Line 1: 121 SW SALMON ST., SUITE 1600 Address Line 2: ONE WORLD TRADE CENTER Address Line 4: PORTLAND, OREGON 97204-2927

NAME OF SUBMITTER: JODI L. CONNOLLY SIGNATURE: /Jodi L. Connolly/	ATTORNEY DOCKET NUMBER:	8123-92262-05
SIGNATURE: /Jodi L. Connolly/	NAME OF SUBMITTER:	JODI L. CONNOLLY
	SIGNATURE:	/Jodi L. Connolly/
DATE SIGNED: 09/23/2016	DATE SIGNED:	09/23/2016

Total Attachments: 8

PATENT REEL: 039847 FRAME: 0415

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PATENT REEL: 039847 FRAME: 0416

ASSIGNMENT

WHEREAS, we, Cecelia C. Yates-Binder, of Pittsburgh, Pennsylvania, Alan H. Wells, of Pittsburgh, Pennsylvania, Joel S. Schuman, of Pittsburgh, Pennsylvania, and Ian P. Conner, of Pittsburgh, Pennsylvania, have invented a certain invention, entitled GOBLET CELL REPLACEMENT THERAPY, for which the following applications have been filed:

U.S. Provisional Application No. 61/929,654, filed on January 21, 2014; and PCT Patent Application No. PCT/US2015/012062, filed on January 20, 2015, which are collectively referred to as "the patent applications."

WHEREAS, University of Pittsburgh - Of the Commonwealth System of Higher Education (hereinafter "UNIVERSITY OF PITTSBURGH"), a non-profit corporation organized under the laws of the Commonwealth of Pennsylvania, having a place of business at 200 Gardner Steel Conference Center, Thackeray and O'Hara Streets, Pittsburgh, Pennsylvania 15260, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Cecelia C. Yates-Binder, Alan H. Wells, Joel S. Schuman, and Ian P. Conner hereby sell, assign, and transfer to the UNIVERSITY OF PITTSBURGH, the full and exclusive right, title, and interest in and to said invention, patent applications, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, patent applications, and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by the UNIVERSITY OF PITTSBURGH, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to the UNIVERSITY OF PITTSBURGH, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign

all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid the UNIVERSITY OF PITTSBURGH, its successors, and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that, at the time the invention was made, we were under an obligation to assign the invention to the UNIVERSITY OF PITTSBURGH.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

Pithbush Ph

on this 28th day of <u>January</u>, 2015.

STATE OF Pennsylvania) ss. county of Aligheny)

This 26 day of ______, 2015, before me personally came the above-named Cecelia C. Yates-Binder, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Cecelia C. Yates-Binder's own free will for the purpose set forth therein.

Notary Public For My commission expires: 9/1/

[SEAL]

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Carla D. Crawford, Notary Public
City of Pittsburgh, Allegheny County
Ny Commission Expires Sept. 1, 2017

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTABLE

	A Clela
At PHSburgh Po (City and State) on this 30 day of January 2015.	Alan H. Wells
(Citý and State) on this 30 day of Namey, 2015.	
STATE OF PEMBYLLMIA)	
STATE OF PENGLANA) SS. COUNTY OF PAlleghan)	
Alan H. Wells, who executed the foregoing ins	s, before me personally came the above-named strument in my presence, and who acknowledged
to me that this instrument was executed by Ala	in H. Wells's own free will for the purpose set
forth therein.	
COMMONWEALTH OF PENNSYLVANIA	
Notarial Seal	
Shelly O'Keefe, Notary Public City of Pittsburgh, Allegheny County	
My Commission Expires Sept. 30, 2016	Notary Public For
NEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES	My commission expires: September 30 3014
[SEAL]	
	Joel S. Schuman
At	
(City and State)	
on this day of, 2015.	
STATE OF)	
) ss.	
COUNTY OF)	
,	
Joel S. Schuman, who executed the foregoing:	5, before me personally came the above-named instrument in my presence, and who
acknowledged to me that this instrument was e the purpose set forth therein.	executed by Joel S. Schuman's own free will for
	Notary Public For
	My commission expires:
[SEAL]	*

	and the Co
At Pittsbursh Pa	Ian P. Conner
At Yithsbursh Pa (City and State) on this 30 day of January, 2015.	
STATE OF Planty () ss. country of Alleghen)	
COUNTY OF Alleghen	
· · · · · · · · · · · · · · · · · · ·	Fore me personally came the above-named Ian in my presence, and who acknowledged to me
that this instrument was executed by Ian P. Conner	
therein.	
COMMONWEALTH OF PENNSYLVANIA	
Notarial Seal Shelly O'Keefe, Notary Public	Notary Public For
City of Pittsburgh, Allegheny County My Commission Expires Sept. 30, 2016	My commission expires: September 30, 2016
[SEA] MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES	

ASSIGNMENT

WHEREAS, we, Cecelia C. Yates-Binder, of Pittsburgh, Pennsylvania, Alan H. Wells, of Pittsburgh, Pennsylvania, Joel S. Schuman, of Pittsburgh, Pennsylvania, and Ian P. Conner, of Pittsburgh, Pennsylvania, have invented a certain invention, entitled GOBLET CELL REPLACEMENT THERAPY, for which the following applications have been filed:

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WHEREAS, University of Pittsburgh - Of the Commonwealth System of Higher Education (hereinafter "UNIVERSITY OF PITTSBURGH"), a non-profit corporation organized under the laws of the Commonwealth of Pennsylvania, having a place of business at 200 Gardner Steel Conference Center, Thackeray and O'Hara Streets, Pittsburgh, Pennsylvania 15260, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Cecelia C. Yates-Binder, Alan H. Wells, Joel S. Schuman, and Ian P. Conner hereby sell, assign, and transfer to the UNIVERSITY OF PITTSBURGH, the full and exclusive right, title, and interest in and to said invention, patent applications, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, patent applications, and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by the UNIVERSITY OF PITTSBURGH, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to the UNIVERSITY OF PITTSBURGH, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful

papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid the UNIVERSITY OF PITTSBURGH, its successors, and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that, at the time the invention was made, we were under an obligation to assign the invention to the UNIVERSITY OF PITTSBURGH.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

		Cecelia C. Yates-Binder
At		
(City and S	State)	
on this day of	, 2015.	
STATE OF)	
COUNTY OF) ss.	
· · · · · · · · · · · · · · · · · · ·	instrument was exe	oing instrument in my presence, and who cuted by Cecelia C. Yates-Binder's own free
		Notary Public For
		My commission expires:

[SEAL]

	Alan H. Wells
On this day of, 2015.	
STATE OF	
COUNTY OF) ss.	
Alan H. Wells, who executed the foregoing	ol 5, before me personally came the above-named instrument in my presence, and who acknowledged Alan H. Wells's own free will for the purpose set
[SEAL]	Notary Public For My commission expires:
At PHSburgh Pro- (Gity and State) on this <u>37</u> day of <u>Muary</u> , 2015.	Joel S Schulman
STATE OF Remsylvania) COUNTY OF Alleghem)	
COUNTY OF Alleghem) 33.	
Joel 5. Schuman, who executed the foregoin	ol 15, before me personally came the above-named ag instrument in my presence, and who s executed by Joel S. Schuman's own free will for
COMMONWEALTH OF PENNSYLVANIA Notarial Seal Shelly O'Keefe, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Sept. 30, 2016 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES	Notary Public For My commission expires: Septential 30, 2016

	_	
		Ian P. Conner
At		
(City and State))	
on this day of,	2015.	
STATE OF)	
) ss.	
COUNTY OF)	
P. Conner, who executed the forest	going instrument in	e me personally came the above-named Ian my presence, and who acknowledged to me own free will for the purpose set forth
	No	otary Public For
		y commission expires:
[SEAL]		

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