

# 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>
UNITED THERAPEUTICS CORPORATION	03/30/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LUNG BIOTECHNOLOGY PBC
<b>Street Address:</b>	1040 SPRING STREET
<b>City:</b>	SILVER SPRING
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20910
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62664494
<b>Application Number:</b>	16398070
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(781)622-5933
<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>	
<b>Phone:</b>	17816225930
<b>Email:</b>	patentadmin@morse.law
<b>Correspondent Name:</b>	STANLEY F. CHALVIRE, ESQ.
<b>Address Line 1:</b>	MORSE, BARNES-BROWN & PENDLETON, P.C.
<b>Address Line 2:</b>	CITYPOINT, 480 TOTTEN POND ROAD, 4TH FLOOR
<b>Address Line 4:</b>	WALTHAM, MASSACHUSETTS 02451
<b>ATTORNEY DOCKET NUMBER:</b>	VIVO-005-101 - 4
<b>NAME OF SUBMITTER:</b>	STANLEY F. CHALVIRE, ESQ.
<b>SIGNATURE:</b>	/Stanley F. Chavire/
<b>DATE SIGNED:</b>	10/06/2021
<b>Total Attachments: 3</b>	
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source=UTC to Lung Biotechnology#page2.tif	
source=UTC to Lung Biotechnology#page3.tif	

## ASSIGNMENT

WHEREAS, **United Therapeutics Corporation** (hereinafter "ASSIGNOR") has acquired rights in the subject matter disclosed in certain patent applications and/or granted Letters Patent as indicated in **Exhibit A** attached hereto (hereinafter "PATENT RIGHTS"); and

WHEREAS, ASSIGNOR's wholly-owned subsidiary, **Lung Biotechnology PBC** (hereinafter "ASSIGNEE"), a Delaware public benefit corporation, having principal offices at 1040 Spring Street, Silver Spring, MD 20910 desires to acquire an interest therein in accordance with agreements duly entered into with ASSIGNOR;

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, ASSIGNOR has sold, assigned and transferred and by these presents does hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, its entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said PATENT RIGHTS, together with its entire right, title and interest in and to said PATENT RIGHTS and foreign counterparts and such Letters Patent issued or as may issue in whole or in part thereon, and any reissue and continuing applications and foreign counterpart applications thereof as well as any Letters Patent issued or issuing in whole or in part thereon, and including the right to claim priority under any applicable statute, treaty or convention based on said PATENT RIGHTS; said PATENT RIGHTS 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 ASSIGNOR had this assignment not been made; ASSIGNOR hereby conveys 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 applications for Letters Patent containing said PATENT RIGHTS, 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. ASSIGNOR hereby acknowledges that this assignment, being of its entire right, title and interest in and to said PATENT RIGHTS, 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, ASSIGNOR hereby further agrees for itself and its 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 PATENT RIGHTS 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, ASSIGNOR does hereby authorize and request the Commissioner of Patents of the United States and/or any foreign patent offices to issue such Letters Patent as shall be granted upon said PATENT RIGHTS to said ASSIGNEE, its successors, assigns, and legal representatives.

Signature on behalf of ASSIGNOR:

Printed Name:


Title:

  
Shawn R. Snader  
VP, Associate GC, IP Litigation

Signature on behalf of ASSIGNEE:

Printed Name:

Title:

  
John Hess  
EVP, Deputy General Counsel

# EXHIBIT A

Title	Serial Number	Status	Country	Filing Date
APPARATUS AND METHOD FOR CONTROLLING FLUID FLOW	62/664,494	Expired	US	30 April 2018
APPARATUS AND METHOD FOR CONTROLLING FLUID FLOW	16/398,070	Pending	US	29 April 2019
APPARATUS AND METHOD FOR CONTROLLING FLUID FLOW	PCT/US2019/029736	Pending	PCT	29 April 2019
APPARATUS FOR EXCHANGING SMALL MOLECULES WITH BLOOD AND METHODS	63/154,470	Pending	US	26 February 2021
SENSOR APPARATUS FOR SENSING CHARACTERISTIC OF FLUID, AND METHOD	63/154,463	Pending	US	26 February 2021
SYSTEMS AND METHODS FOR EXCHANGING SMALL MOLECULES WITH FLUID	62/852,517	Expired	US	24 May 2019
SYSTEMS AND METHODS FOR EXCHANGING SMALL MOLECULES WITH FLUID	PCT/US2020/034408	Pending	PCT	22 May 2020