

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BOB D. BROWN	03/23/2015
HENRYK T. DUDEK	03/23/2015
RECEIVING PARTY DATA	
Name:	DICERNA PHARMACEUTICALS, INC.
Street Address:	75 HAYDEN AVENUE
City:	LEXINGTON
State/Country:	MASSACHUSETTS
Postal Code:	02421
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	17400259
Application Number:	17400317
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	0243.0036-T1-01/02
NAME OF SUBMITTER:	SHULING LAU WILLIAMS
SIGNATURE:	/SHULING LAU WILLIAMS/
DATE SIGNED:	08/12/2021
Total Attachments: 5	
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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 23 day of MARCH, 2015, by Bob D. Brown and Henryk T. Dudek (hereinafter referred to as Assignors), residing at 54 Leprechaun Drive, Millington, New Jersey 07946; and 105 Overbrook Drive, Wellesley, Massachusetts 02482, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in METHODS AND COMPOSITIONS FOR THE SPECIFIC INHIBITION OF ALPHA-1 ANTITRYPSIN BY DOUBLE-STANDED RNA, set forth in a Patent application for Letters Patent of the United States, already filed on July 3, 2014 as U.S. Application No. 14/323,299; and

WHEREAS, Dicerna Pharmaceuticals, Inc., a Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at 87 Cambridgepark Drive, Cambridge, Massachusetts 02140 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the

same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

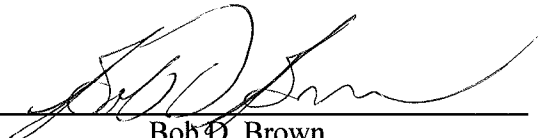
AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply

with the rules of the United States Patent and Trademark Office for recordation of this document:

MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.

All practitioners at Customer Number 30623

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.



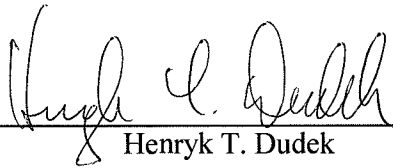
Bob D. Brown

Date: 3/23/2015

United States of America)
State of Massachusetts) ss.:
County of Middlesex)

On this 23 day of March, 2015, before me
personally came Bob D. Brown, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Notary Public


Henryk T. Dudek

Date: 3/23/2015

United States of America)
State of Massachusetts) ss.:
County of Middlesex)

On this 23 day of March, 2015, before me
personally came Henryk T. Dudek, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Notary Public